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23 **UNITED STATES DISTRICT COURT**  
24 **DISTRICT OF NEVADA**  
25

20 UNITED STATES OF AMERICA, ) Civil Action No. 3:17-cv-00302-MMD-WGC

21 Plaintiff, )

22 v. )

23 NEVADA CEMENT COMPANY )

24 Defendant. )

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1 WHEREAS, Plaintiff, the United States of America, on behalf of the United States  
2 Environmental Protection Agency (herein "U.S. EPA" or "EPA") has, simultaneously with the  
3 lodging of this Consent Decree, filed a Complaint against Defendant Nevada Cement Company  
4 ("Defendant" or "Nevada Cement Company"), pursuant to Sections 113(b) and 167 of the Clean  
5 Air Act ("Clean Air Act or Act"), 42 U.S.C. §§ 7413(b) and 7477, for injunctive relief and the  
6 assessment of civil penalties for violations of the following statutory and regulatory requirements  
7 of the Act at the Defendant's Portland cement plant located in Fernley, Nevada: the Prevention  
8 of Significant Deterioration ("PSD") provisions of the Act, Sections 160-169, 42 U.S.C. §§  
9 7470-7492; the New Source Performance Standards ("NSPS") provisions of the Act, Section  
10 111, 42 U.S.C. § 7411; and the federally-approved and enforceable state implementation plan  
11 ("SIP"), which incorporate and/or implement the above-listed federal PSD requirements;  
12

13  
14 WHEREAS, this Consent Decree sets forth injunctive relief in which Defendant has  
15 agreed to substantially reduce its emissions of nitrogen oxide and limit its emissions of sulfur  
16 dioxide in such a manner that would resolve Defendant's alleged violations of the PSD and  
17 NSPS requirements of the Act;  
18

19 WHEREAS, U.S. EPA has provided notice of the violations alleged herein to the  
20 Defendant and to the State of Nevada where Defendant's Facility is located, pursuant to  
21 Section 113(a) of the Act, 42 U.S.C. § 7413(a), and Defendant stipulates that it has received  
22 actual notice of the violations alleged in the Complaint and that it does not contest the adequacy  
23 of the notice provided;  
24

25 WHEREAS, Defendant denies the allegations of the Complaint and does not admit that it  
26 has any liability to the United States for civil penalties or injunctive relief arising out of the  
27 transactions and occurrences alleged in the Complaint;  
28

1 WHEREAS, the Parties recognize, and the Court by entering this Consent Decree finds,  
2 that this Consent Decree has been negotiated by the Parties in good faith and will avoid litigation  
3 between the Parties and that this Consent Decree is fair, reasonable, and in the public interest.  
4

5 NOW, THEREFORE, before the taking of any testimony, without the adjudication or  
6 admission of any issue of fact or law except as provided in Section I (Jurisdiction and Venue),  
7 below, and with the consent of the Parties, IT IS HEREBY ADJUDGED, ORDERED, AND  
8 DECREED as follows:  
9

10 **SECTION I: JURISDICTION AND VENUE**

11 1. This Court has jurisdiction of the subject matter herein and over the Parties  
12 consenting hereto pursuant to Sections 113(b), 167, and 304(a) of the Act, 42 U.S.C.  
13 §§ 7413(b), 7477, and 7604(a), and pursuant to 28 U.S.C. §§ 1331, 1345, 1355 and  
14 1367(a). Venue is proper under Sections 113(b) and 304(c) of the Act, 42 U.S.C. §§  
15 7413(b) and 7604(c), and under 28 U.S.C. §§ 1391(b) and (c) and 1395(a). For  
16 purposes of this Consent Decree and the underlying Complaint, Defendant waives all  
17 objections and defenses it may have to the Court's jurisdiction over this action, to the  
18 Court's jurisdiction over the Defendant, and to venue in this District. For the  
19 purposes of the allegations in the Complaint in this matter that are being resolved by  
20 the Consent Decree, Defendant waives any defense or objection based on standing.  
21

22 2. For purposes of this Consent Decree, Defendant agrees that the Complaint  
23 states claims upon which relief may be granted pursuant to Sections 113, 165 and 167  
24 of the Act, 42 U.S.C. §§ 7413, 7475 and 7477.  
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## **SECTION II: APPLICABILITY**

3. The obligations of this Consent Decree apply to and are binding upon the United States and upon the Defendant, and any successors, assigns, or other entities or persons otherwise bound by law.

4. At least 30 Days prior to any transfer of ownership or operation of the Facility, Defendant shall provide a copy of this Consent Decree to the proposed transferee and, by the same deadline, shall simultaneously provide written notice of the prospective transfer, together with a copy of the proposed written agreement to transfer ownership of the Facility, to U.S. EPA and the United States in accordance with Section XIX (Notices) of this Consent Decree. No transfer of ownership or operation of the Facility, whether in compliance with the procedures of this Paragraph or otherwise, shall relieve Defendant of its obligation to ensure that the terms of the Decree are implemented, unless:

- a. the transferee agrees, in writing, to undertake the obligations required by Sections V (NO<sub>x</sub> Control Technology, Emission Limits, and Monitoring Requirements), VI (SO<sub>2</sub> Emission Limits and Monitoring Requirements), VII (Other Injunctive Relief), VIII (Temporary Cessation of Kiln Operations), IX (Prohibition on Netting Credits or Offsets from Required Controls), X (Permits), XI (Review and Approval of Submittals), XII (Reporting Requirements), XIII (Stipulated Penalties), XIV (Force Majeure), XV (Dispute Resolution), XVI (Information Collection and Retention) and the requirements of Appendices A and B of this Consent Decree applicable to the Facility or Kilns and further agrees in writing to be substituted for the

1 Defendant as a Party under the Decree with respect to Facility or Kilns and  
2 thus become bound by the terms thereof;

- 3 b. the United States determines that the transferee has the financial and technical  
4 ability to assume the Consent Decree's obligations applicable to such Facility  
5 or Kilns;  
6  
7 c. the United States consents, in writing, to relieve Defendant of its Consent  
8 Decree obligations applicable to the Facility or Kilns; and  
9  
10 d. the Court approves the transferee becoming a party to this Consent Decree  
11 with respect to the transferred Facility or Kilns, pursuant to Section XXII  
12 (Modification).

13 5. Any transfer of ownership or operation of the Facility or Kilns, or any  
14 portion thereof, without complying with Paragraph 4, constitutes a violation of this  
15 Consent Decree.  
16

17 6. The Defendant shall provide a copy of this Consent Decree to all officers,  
18 employees, and agents whose duties might reasonably include compliance with any  
19 provision of this Consent Decree, as well as to any Contractor retained to perform  
20 work required under this Consent Decree. Defendant shall condition any such  
21 contract upon performance of the work in conformity with the terms of this Consent  
22 Decree.  
23

24 7. In any action to enforce this Consent Decree, Defendant shall not raise as  
25 a defense the failure by any of its officers, directors, employees, agents, or contractors  
26 to take any actions necessary to comply with the provisions of this Consent Decree.  
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a. "30-Day Rolling Average Emission Limit" shall mean, with respect to the Kilns, the maximum allowable rate of emission of a specified air pollutant from such Kiln and shall be expressed as pounds (lbs.) of such air pollutant emitted per Ton of clinker produced. Compliance with the 30-Day Rolling Average Emission Limit shall be determined in accordance with the definition of 30-Day Rolling Average Emission Rate. A new compliance determination of the 30-Day Rolling Average Emission Limit shall be calculated for each new Operating Day in accordance with the provisions of this Consent Decree. In calculating each compliance determination of the 30-Day Rolling Average Emission Limit in accordance with this Paragraph 8.a, for NO<sub>x</sub> or SO<sub>2</sub> at the Kilns, the total pounds of such air pollutant emitted from the Kiln during a specified period (Operating Day or 30-Day Period) shall include all emissions of that pollutant from the subject Kiln that occur during the specified period;

- 1 b. "30-Day Rolling Average Emission Rate" shall mean, with respect to the Kilns, the  
2 rate of emission of a specified air pollutant from such Kiln and shall be expressed as  
3 pounds (lbs.) of such air pollutant emitted per Ton of clinker produced. Compliance  
4 with the 30-Day Rolling Average Emission Limit shall be determined by calculation  
5 of a 30-Day Rolling Average Emission Rate in accordance with the following  
6 procedure: first, sum the total pounds of the air pollutant in question emitted from the  
7 Kiln during that Operating Day and the previous twenty-nine (29) Operating Days as  
8 measured pursuant to Section V.B. (NO<sub>x</sub> and Ammonia Continuous Emission  
9 Monitoring Systems), or Section VI.B. (SO<sub>2</sub> Continuous Emission Monitoring  
10 Systems), as applicable; second, sum the total Tons of clinker produced by the Kiln  
11 during the same Operating Day and previous 29 Operating Days; and third, divide the  
12 total number of pounds of the air pollutant emitted from the Kiln during the thirty  
13 (30) Operating Days by the total Tons of clinker produced by such Kiln during the  
14 same 30 Operating Days. A new compliance determination of the 30-Day Rolling  
15 Average Emission Rate shall be calculated for each new Operating Day in accordance  
16 with the provisions of this Consent Decree. In calculating each 30-Day Rolling  
17 Average Emission Rate in accordance with this Paragraph 8.b, for NO<sub>x</sub> or SO<sub>2</sub> at the  
18 Kilns, the total pounds of such air pollutant emitted from the Kiln during a specified  
19 period (Operating Day or 30-Day Period) shall include all emissions of that pollutant  
20 from the subject Kiln that occur during the specified period;  
21  
22 c. "Ammonia CEMS" shall mean, for obligations involving ammonia under this Consent  
23 Decree, the total equipment and software required to sample, analyze, and to provide a  
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1 record of ammonia concentration and the raw data necessary to support the reported  
2 emissions;

3 d. "Ammonia Slip" shall mean the amount of unreacted ammonia contained in emissions  
4 from Defendant's Kilns. Ammonia Slip shall be calculated by subtracting Baseline  
5 Ammonia from Stack Ammonia;  
6

7 e. "Baseline NO<sub>x</sub> Emissions" shall mean the average (arithmetic mean) of all daily  
8 emissions of NO<sub>x</sub> from each Kiln during the Baseline Collection Period consistent with  
9 Appendix A and shall be based upon an analysis of CEMS data and clinker  
10 production data from each Kiln;  
11

12 f. "Baseline Ammonia" shall mean the average (arithmetic mean) of all daily average  
13 ammonia concentrations from each Kiln during the Baseline Collection Period consistent  
14 with Appendix A and shall be based upon an analysis of CEMS data from each Kiln.  
15 Baseline Ammonia shall reflect Ammonia measured by the Ammonia CEMS only during  
16 periods of time when the SNCR is not injecting any reagent into the Kilns;  
17

18 g. "Business Day" means any Day, except for Saturday, Sunday, and federal holidays.  
19 In computing any period of time used as a deadline for submission under this Consent  
20 Decree, where the last Day would fall on a Saturday, Sunday, or federal holiday, the  
21 period shall run until the close of business of the next Business Day;  
22

23 h. "CEMS" or "Continuous Emission Monitoring System" shall mean, for obligations  
24 involving NO<sub>x</sub> and SO<sub>2</sub> under this Consent Decree, the total equipment and software  
25 required to sample and condition (if applicable), to analyze, and to provide a record of  
26 NO<sub>x</sub> and SO<sub>2</sub> emission rates, and the raw data necessary to support the reported  
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1 emission rates, and that have been installed, calibrated and certified in accordance  
2 with 40 C.F.R. § 60.13 and 40 C.F.R. Part 60 Appendix B and Appendix F;

3 i. "Commence" or "Commencement" of operation of a Control Technology shall mean  
4 to begin the introduction of the reagent employed by the Control Technology, as  
5 applicable to that technology, or where the technology is otherwise activated;

6 j. "Complaint" shall mean the complaint filed by the United States in this action;

7 k. "Consent Decree" or "Decree" shall mean this Consent Decree and each Appendix  
8 attached hereto (listed in Section XXVIII (Appendices)), but in the event of any  
9 conflict between the text of this Consent Decree and any Appendix, the text of this  
10 Consent Decree shall control;

11 l. "Continuously Operate" or "Continuous Operation" shall mean that when a Control  
12 Technology required by this Consent Decree is used at a Kiln, it shall be operated at  
13 all times of Kiln Operation, consistent with the technological limitations,  
14 manufacturers' specifications, and good engineering and maintenance practices for  
15 such Control Technology and the Kiln. A SNCR that is injecting no reagent is not  
16 Continuously Operating; however, the requirement to continuously operate SNCR  
17 does not require that the SNCR be operated under conditions where the Kiln has not  
18 reached or is no longer maintaining the minimum temperature for reagent injection.  
19 This Paragraph is not intended to require any minimum level of reagent injection after  
20 the 30-Day Rolling Average Emission Limit has been established in accordance with  
21 Paragraph 8.a;

22 m. "Contractor" shall mean any person or entity hired by Defendant to perform services  
23 on its behalf necessary to comply with the provisions of this Consent Decree;

- 1 n. "Control Technology" or "NO<sub>x</sub> Control Technology" shall mean Selective Non-  
2 Catalytic Reduction or Low-NO<sub>x</sub> Burner technology;
- 3 o. "Date of Lodging of the Consent Decree" or "Date of Lodging" shall mean the date  
4 the Consent Decree is filed for lodging with the Clerk of the Court for the United  
5 States District Court for the District of Nevada;
- 6 p. "Day" shall mean a calendar day unless expressly stated to be a Business Day;
- 7 q. "Defendant" or "Nevada Cement" shall mean Nevada Cement Company;
- 8 r. "Effective Date" shall have the meaning given in Paragraph 98;
- 9 s. "Facility" shall mean the Defendant's Portland cement manufacturing plant located  
10 just north of Interstate Highway 80 near Fernley, Nevada;
- 11 t. "Kiln" as used in this Consent Decree shall mean each device located at the Facility,  
12 including any associated preheater devices, that produces clinker by heating  
13 limestone and other materials for subsequent production of Portland cement. The two  
14 Kilns at the Facility are designated Kiln #1, which is a long dry rotary kiln, and Kiln  
15 #2, which is a long dry rotary kiln with a single-stage preheater;
- 16 u. "Kiln Operation" shall mean any period when any raw materials are fed into the Kiln  
17 or any combustion is occurring in the Kiln;
- 18 v. "Low-NO<sub>x</sub> Burner" or "LNB" shall mean commercially available combustion  
19 modification NO<sub>x</sub> controls that minimize NO<sub>x</sub> formation by introducing fuel and its  
20 associated combustion air into a kiln such that initial combustion occurs in a fuel-rich  
21 (i.e., oxygen deficient) environment and introduces additional air to achieve a final  
22 fuel-lean (i.e., oxygen rich) environment to complete the combustion process;
- 23  
24  
25  
26  
27  
28

- 1 w. "Malfunction" shall mean any sudden, infrequent, and not reasonably preventable  
2 failure of air pollution control equipment, process equipment, or a process to operate  
3 in a normal or usual manner. Failures that are caused in part by poor maintenance or  
4 careless operation are not malfunctions;  
5
- 6 x. "National Ambient Air Quality Standards" or "NAAQS" shall mean national ambient  
7 air quality standards that are promulgated pursuant to Section 109 of the Act, 42  
8 U.S.C. § 7409;  
9
- 10 y. "New Source Performance Standards" or "NSPS" shall mean those standards and  
11 emission limitations applicable to the emissions of NO<sub>x</sub>, and SO<sub>2</sub>, from existing,  
12 modified or reconstructed Portland cement manufacturing facilities, codified at 40  
13 C.F.R. Part 60, Subpart F;  
14
- 15 z. "NO<sub>x</sub>" shall mean oxides of nitrogen, measured in accordance with the provisions of  
16 this Consent Decree;  
17
- 18 aa. "Operating Day" shall mean any day in which Kiln Operation has occurred;  
19
- 20 bb. "Paragraph" shall mean a portion of this Consent Decree identified by an Arabic  
21 numeral;  
22
- 23 cc. "Parties" shall mean the United States and Nevada Cement Company;  
24
- 25 dd. "PSD" shall mean the Prevention of Significant Deterioration program within the  
26 meaning of Part C of Subchapter I of the Act, 42 U.S.C. §§ 7470-7492, 40 C.F.R. Part  
27 52, and Nevada's State Implementation Plan implementing the PSD requirements;  
28
- ee. "Retire" or "Retirement" shall mean, with respect to any Kiln, (1) to permanently  
Shutdown the Kiln; and (2) to comply with applicable State and federal requirements  
for permanent cessation of Kiln operations, including submitting an application in

- 1 accordance with the Nevada SIP to remove permanently any legal authorization under  
2 applicable regulations or permits for further operation of the Kiln;
- 3 ff. "Section" shall mean a portion of this Consent Decree identified by a Roman  
4 numeral;
- 5  
6 gg. "Selective Non-Catalytic Reduction" or "SNCR" shall mean a pollution control  
7 system that injects an ammonia-based reagent into the gas stream without the use of a  
8 catalyst for the purpose of reducing NO<sub>x</sub> emissions;
- 9  
10 hh. "Shutdown" shall mean the cessation of Kiln Operation. Shutdown begins when feed  
11 to the Kiln is halted and ends when continuous Kiln rotation ceases;
- 12  
13 ii. "SNCR Demonstration Period" shall mean that period of time identified in Appendix  
14 A, following optimization, and at the conclusion of which, Defendant will propose a  
15 30-Day Rolling Average Emission Limit for NO<sub>x</sub> for each Kiln that is achievable  
16 through the implementation of SNCR, and that will be applied in accordance with  
17 Section V (NO<sub>x</sub> Control Technology, Emission Limits, and Monitoring  
18 Requirements) of this Consent Decree;
- 19  
20 jj. "SO<sub>2</sub>" shall mean the pollutant sulfur dioxide, measured in accordance with the  
21 provisions of this Consent Decree;
- 22  
23 kk. "Stack Ammonia" shall mean the concentration of ammonia in emissions from the  
24 Defendant's Kilns as measured by the Ammonia CEMS during the period when an  
25 SNCR is operational for that Kiln. Stack Ammonia is not, without subtraction of  
26 Baseline Ammonia, considered Ammonia Slip;
- 27  
28 ll. "Startup" shall mean the time from when a Shutdown Kiln turns on the induced draft  
fan and begins firing fuel in the main burner. Startup ends when feed is being

1 continuously introduced into the Kiln for at least 120 minutes or when the feed rate  
2 exceeds 60 percent of the Kiln design limitation rate, whichever occurs first;  
3  
4 mm. "State" shall mean the State of Nevada, and any agencies or subdivisions having  
5 jurisdiction over the Facility, including the Nevada Division of Environmental  
6 Protection ("NDEP");  
7  
8 nn. "Temporary Cessation," "Temporary Cessation of Kiln Operation" or "Temporarily  
9 Cease Kiln Operation" shall mean the period when a Kiln is not in a state of Kiln  
10 Operation and Defendant has provided the required notice pursuant to Paragraph 35  
11 of Section VIII (Temporary Cessation of Kiln Operation) of this Consent Decree;  
12  
13 oo. "Ton" or "Tons" shall mean short ton or short tons;  
14  
15 pp. "United States" shall mean the United States of America, acting on behalf of U.S.  
16 EPA; and  
17  
18 qq. "U.S. EPA" shall mean the United States Environmental Protection Agency and any  
19 of its successor departments or agencies.

#### 18 **SECTION IV: CIVIL PENALTY**

19 9. Within thirty (30) Days after the Effective Date of this Consent Decree,  
20 Defendant shall pay to the United States as a civil penalty the sum of \$550,000,  
21 together with interest accruing from the date that the Consent Decree is lodged with  
22 the Court, at the rate specified in 28 U.S.C. § 1961 as of the date of lodging.  
23 Defendant shall pay the civil penalty due under this Paragraph 9 by FedWire  
24 Electronic Funds Transfer ("EFT") to the U.S. Department of Justice in accordance  
25 with written instructions to be provided to Defendant following lodging of the  
26 Consent Decree by the Financial Litigation Unit of the U.S. Attorney's Office for the  
27  
28

1 District of Nevada, 333 Las Vegas Blvd, Suite 5000, Las Vegas, Nevada, 89101. At  
2 the time of payment, Defendant shall send a copy of the EFT authorization form and  
3 the EFT transaction record, together with a transmittal letter, which shall state that the  
4 payment is for the civil penalty owed pursuant to the Consent Decree in United States  
5 v. Nevada Cement Company, and shall reference the civil action number and DOJ  
6 case number 90-5-2-1-10458, to the United States in accordance with Section XIX of  
7 this Consent Decree (Notices); by email to acctsreceivable.CINWD@epa.gov; and to:

8  
9 U.S. EPA Cincinnati Finance Office  
10 26 Martin Luther King Drive  
11 Cincinnati, Ohio 45268.

12 10. Defendant shall not deduct any penalties paid under this Section or  
13 Section XIII (Stipulated Penalties) in calculating its federal or state or local income  
14 tax.  
15

16 **SECTION V: NO<sub>x</sub> CONTROL TECHNOLOGY, EMISSION LIMITS AND**  
17 **MONITORING REQUIREMENTS**

18 **A. NO<sub>x</sub> Control Technology and Emission Limits**

19 11. Defendant shall install and Continuously Operate SNCR Control  
20 Technology on each Kiln to reduce NO<sub>x</sub> emissions in accordance with the timeframes  
21 and requirements set forth in Section III of Appendix A.  
22

23 12. Defendant shall comply with all terms and conditions, including drafting  
24 submittals and complying with protocols set forth in Appendix A, to establish 30-Day  
25 Rolling Average Emission Limits for NO<sub>x</sub> applicable to each Kiln.

26 13. Within 30 Days after approval, conditional approval, or partial approval  
27 by U.S. EPA pursuant to Section XI (Review and Approval of Submittals) of any  
28

1 final 30-Day Rolling Average Emission Limit for NO<sub>x</sub> established pursuant to  
2 Appendix A, Defendant shall achieve and maintain continuous compliance with such  
3 30-Day Rolling Average Emission Limit for NO<sub>x</sub>. If the 30-day Rolling Average  
4 Emission Limit for NO<sub>x</sub> is challenged pursuant to the Dispute Resolution provisions  
5 of Section XV (Dispute Resolution), the final NO<sub>x</sub> Limit shall be the 30-Day Rolling  
6 Average agreed to by the Parties at the conclusion of Informal Dispute Resolution. If  
7 Informal Dispute Resolution does not resolve the dispute, Defendant shall comply  
8 with its Proposed final NO<sub>x</sub> Emissions Limit until a final NO<sub>x</sub> Emissions Limit is  
9 determined by the Court.  
10  
11

12 14. If the final 30-Day Rolling Average Emission Limit for NO<sub>x</sub> as  
13 determined in Appendix A.IV.7.d is less than a 40% reduction in Baseline NO<sub>x</sub>  
14 Emissions of the applicable Kiln, the United States may demand that Defendant  
15 install a Low NO<sub>x</sub> Burner on such Kiln. The United States will make this demand  
16 within 180 days of receipt of the Demonstration Report.  
17

18 15. If the United States demands that Defendant install a Low NO<sub>x</sub> Burner on  
19 either Kiln pursuant to Paragraph 14, Defendant shall install a Low NO<sub>x</sub> Burner  
20 within 24 months of such demand and comply with Appendix A, Section V of this  
21 Consent Decree. Following the installation of a Low NO<sub>x</sub> Burner on a Kiln, the  
22 Defendant shall commence complying with the terms of Appendix A, Section V to  
23 establish a new 30-Day Rolling Average Emissions Limit applicable to such Kiln  
24 while operating Low NO<sub>x</sub> Burner and SNCR.  
25

26 16. Upon submittal to EPA as part of a SNCR Demonstration Report of a  
27 proposed 30 Day Rolling Average Emission Limit for NO<sub>x</sub> for a particular Kiln  
28



1 pursuant to Appendix A, Defendant shall meet the proposed Limit for that Kiln until  
2 such time as final 30-Day Rolling Average Limit is established pursuant to Paragraph  
3 13.  
4

5 **B. NO<sub>x</sub> and Ammonia Continuous Emission Monitoring Systems**

6 17. By no later than December 31, 2017, Defendant shall install and make  
7 operational a NO<sub>x</sub> CEMS and an Ammonia CEMS at the stack of Kiln #2 in  
8 accordance with the requirements of Appendix A.  
9

10 a. On or before the date that a NO<sub>x</sub> CEMS and an Ammonia CEMS is required  
11 pursuant to Paragraph 17, Defendant shall begin to record on a continuous basis  
12 the daily clinker production rates by continuously meeting the requirements of 40  
13 C.F.R. § 63.1350(d) to determine hourly clinker production rates.

14 18. Except during CEMS breakdowns, repairs, calibration checks, and zero  
15 span adjustments, the CEMS required pursuant to Paragraphs 17 and 19 shall be  
16 operated at all times during Kiln Operation. Such CEMS shall be used to  
17 demonstrate compliance with the 30-Day Rolling Average Emission Limit for NO<sub>x</sub>  
18 established in Section V.A (NO<sub>x</sub> Control Technology and Emission Limits) and  
19 Appendix A of this Consent Decree.  
20

21 19. By February 1, 2018, Defendant shall complete installation of a single  
22 stack for Kiln #1, install and make operational a NO<sub>x</sub> CEMS and an Ammonia CEMS  
23 at the stack and start collecting the same production data as Paragraph 17.a.  
24

25 20. Each NO<sub>x</sub> CEMS required by this Consent Decree along with associated  
26 flow monitors and weight meters shall monitor and record the applicable NO<sub>x</sub>  
27 emission rate from each Kiln stack in units of lbs. of NO<sub>x</sub> per Ton of clinker produced  
28

1 at the Kiln and shall be installed, certified, calibrated, maintained, and operated in  
2 accordance with the requirements of 40 C.F.R. Part 60, Appendices B and F. The  
3 Ammonia CEMS shall be installed and operated in a manner that meets the  
4 requirements of 40 C.F.R. Part 60, Appendices B and F, and CTM 027.  
5

6 21. For purposes of this Consent Decree, all emissions of NO<sub>x</sub> from the Kilns  
7 shall be measured by the NO<sub>x</sub> CEMS. During any time when CEMS are inoperable  
8 and otherwise not measuring emission of NO<sub>x</sub> from either Kiln, Defendant shall apply  
9 the missing data substitution procedures in 40 C.F.R. Part 75, Subpart D.  
10

11 **SECTION VI: SO<sub>2</sub> EMISSION LIMITS AND MONITORING REQUIREMENTS**

12 **A. SO<sub>2</sub> Emission Limits**

13 22. By the dates set forth below in Paragraphs 23 and 24, Defendant shall  
14 achieve and maintain continuous compliance with the 30-Day Rolling Average  
15 Emission Limit for SO<sub>2</sub> set forth in Table 1:  
16

17 **TABLE 1**

18

Kiln	30-Day Rolling Average Emission Limit for SO <sub>2</sub> (lbs. SO <sub>2</sub> /Ton of clinker)
Kiln #1	1.1 lbs SO <sub>2</sub> / Ton of clinker
Kiln #2	1.1 lbs SO <sub>2</sub> / Ton of clinker

23

24 **B. SO<sub>2</sub> Continuous Emission Monitoring Systems**

25 23. By no later than December 31, 2017, Defendant shall install and make  
26 operational an SO<sub>2</sub> CEMS at the stack of Kiln #2.  
27  
28

1                   24. No later than February 1, 2018, Defendant shall install and make  
2 operational an SO<sub>2</sub> CEMS at the stack of Kiln #1.

3                   25. Except during CEMS breakdowns, repairs, calibration checks, and zero  
4 span adjustments, the SO<sub>2</sub> CEMS required pursuant to Paragraphs 23 and 24 shall be  
5 operated at all times during Kiln Operation. Each such SO<sub>2</sub> CEMS shall be used at  
6 each Kiln to demonstrate compliance with the 30-Day Rolling Average Emission  
7 Limit for SO<sub>2</sub> established in Section VI.A (SO<sub>2</sub> Emission Limits) of this Consent  
8 Decree.  
9

10                  26. Each SO<sub>2</sub> CEMS required for this Consent Decree, along with associated  
11 flow monitor and weight meters, shall monitor and record the applicable SO<sub>2</sub>  
12 emission rate from each Kiln stack in units of lb of SO<sub>2</sub> per Ton of clinker produced  
13 at each Kiln and shall be installed, certified, calibrated, maintained, and operated in  
14 accordance with the applicable requirements of 40 C.F.R. Part 60.  
15

16                  27. For purposes of this Consent Decree, all emissions of SO<sub>2</sub> from the Kilns  
17 shall be measured by SO<sub>2</sub> CEMS. During any time when the CEMS are inoperable  
18 and otherwise not measuring emissions of SO<sub>2</sub> from any Kiln, Defendant shall apply  
19 the missing data substitution procedures in 40 C.F.R. Part 75, Subpart D.  
20

## 21                   **SECTION VII: OTHER INJUNCTIVE RELIEF**

### 22                   **Good Pollution Control Practices**

23                  28. At all times, Defendant shall maintain and operate the Kilns, including all  
24 associated air pollution control equipment, in a manner consistent with good air  
25 pollution control practice.  
26  
27  
28

## Mitigation

29. Within two years of the Date of Entry of this Consent Decree, Defendant shall replace an existing heavy-duty diesel truck and an existing rail car mover that are identified in Appendix B of this Consent Decree with a new diesel truck and a new rail car mover with required emissions controls, as described more fully in Appendix B (the "Projects"). Defendant shall spend no less than \$420,000 for the Projects ("Project Dollars").

30. Defendant, shall maintain, and, within 30 Days upon U.S. EPA's request, provide to U.S. EPA all documents that substantiate work completed on the Projects in accordance with Section XIX (Notices).

31. Defendant certifies that Defendant is not otherwise required by law to perform the Projects, that Defendant is unaware of any other person who is required by law to perform the Projects, and that Defendant will not use the Projects, or portion thereof, to satisfy any obligations that it may have under other applicable requirements of law. Defendant certifies that it has not, and will not, deduct any costs in implementing Section VII (Other Injunctive Relief), in calculating its federal or state income taxes.

32. Beginning six (6) months after the Effective Date of this Consent Decree, and continuing until completion of the Projects, Defendant shall provide U.S. EPA with semi-annual or annual updates concerning the progress of the Projects in the semi-annual or annual reports required (as applicable) in Section XII (Reporting Requirements) of this Consent Decree.

1                   33. Defendant shall use good faith efforts to secure as much environmental  
2 benefit as possible for the Project Dollars expended, consistent with the applicable  
3 requirements and limits of this Consent Decree. Within sixty (60) Days following the  
4 completion of the Projects required under this Consent Decree, Defendant shall  
5 submit to U.S. EPA a report that documents the date that the Projects were  
6 completed, Defendant's results from implementing the Projects, including the  
7 emission reductions or other environmental benefits achieved (including any emission  
8 reductions achieved for NO<sub>x</sub>, or SO<sub>2</sub>), and the Project Dollars expended by Defendant  
9 in implementing the Projects.  
10

11  
12                   34. In connection with any communication to the public or to shareholders  
13 regarding Defendant's actions or expenditures relating in any way to the Projects,  
14 Defendant shall include prominently in the communication the information that the  
15 actions and expenditures were required as part of a negotiated consent decree to  
16 resolve allegations that Defendant violated the Clean Air Act.  
17

18                   **SECTION VIII: TEMPORARY CESSATION OF KILN OPERATION**

19                   35. If Defendant has Temporarily Ceased Kiln Operation of any Kiln on the  
20 date by which Defendant is required to install and/or Continuously Operate any  
21 Control Technology at that Kiln under Section V (NO<sub>x</sub> Control Technology, Emission  
22 Limits, and Monitoring Requirements), or Section VI (SO<sub>2</sub> Emission Limits and  
23 Monitoring Requirements), Defendant shall provide written notice to U.S. EPA  
24 within ten (10) Days after such Temporary Cessation began, specifying the date on  
25 which such period of Temporary Cessation began. Defendant shall provide such  
26 written notice pursuant to Section XIX (Notices).  
27  
28

1                   36. If Defendant has provided the written notice as required in Paragraph 35,  
2 above, Defendant shall not be required to install and Continuously Operate the  
3 Control Technology at that Kiln by the dates required in Section V (NO<sub>x</sub> Control  
4 Technology, Emission Limits, and Monitoring Requirements) and Section VI (SO<sub>2</sub>  
5 Emission Limits and Monitoring Requirements) of this Consent Decree with respect  
6 to that Kiln. However, Defendant shall not recommence Kiln Operation after the  
7 dates required in Section V (NO<sub>x</sub> Control Technology, Emission Limits, and  
8 Monitoring Requirements) of this Consent Decree with respect to that Kiln unless the  
9 Defendant has: 1) installed and Commenced Continuous Operation of the Control  
10 Technologies required by this Consent Decree for that Kiln; 2) commenced  
11 compliance with all requirements for that Kiln contained in Section V (NO<sub>x</sub> Control  
12 Technology, Emission Limits, and Monitoring Requirements) and Section VI (SO<sub>2</sub>  
13 Emission Limits and Monitoring Requirements); and 3) provided written notice to  
14 U.S. EPA within 30 Days after recommencing Kiln Operation. If Defendant  
15 recommences Kiln Operation without installing and Commencing Continuous  
16 Operation of the Control Technology required under this Consent Decree and does  
17 not demonstrate compliance with all requirements for that Kiln contained in Section  
18 V (NO<sub>x</sub> Control Technology, Emission Limits, and Monitoring Requirements) and  
19 Section VI (SO<sub>2</sub> Emission Limits and Monitoring Requirements), Defendant shall be  
20 liable for stipulated penalties pursuant to Section XIII (Stipulated Penalties).  
21  
22  
23  
24  
25  
26  
27  
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**SECTION IX: PROHIBITION ON NETTING CREDITS OR OFFSETS FROM  
REQUIRED CONTROLS**

37. Except as specifically stated to the contrary in this Consent Decree, NO<sub>x</sub> and SO<sub>2</sub> emission reductions resulting from compliance with the requirements of this Consent Decree shall not be considered as a creditable contemporaneous emission decrease for the purpose of obtaining a netting credit under the Clean Air Act's Non-attainment NSR and PSD programs.

38. The limitations on the generation and use of netting credits or offsets set forth in Paragraph 37 do not apply to emission reductions achieved by Defendant that are surplus to those required under this Consent Decree (“surplus emission reductions”). For purposes of this Paragraph, surplus emission reductions are the reductions over and above those required under this Consent Decree, including any final 30-Day Rolling Average Emission Limit for NO<sub>x</sub> established pursuant to Appendix A, that result from Defendant’s compliance with federally enforceable emissions limits that are more stringent than limits imposed under this Consent Decree or from Defendant’s compliance with emissions limits otherwise required under applicable provisions of the Clean Air Act or with an applicable SIP that contains more stringent limits than those imposed under this Consent Decree.

39. Nothing in this Consent Decree is intended to preclude the emission reductions generated under this Consent Decree from being considered by U.S. EPA or a State as creditable contemporaneous emission decreases for the purpose of attainment demonstrations submitted pursuant to § 110 of the Act, 42 U.S.C. § 7410, or in determining impacts on NAAQS, PSD increments, or air quality-related values,

1 or for demonstrating reasonable progress under the regional haze program of the  
2 Clean Air Act pursuant to 42 U.S.C. §§ 7491-92.

3 **SECTION X: PERMITS**

4  
5 40. Where any compliance obligation under this Consent Decree requires  
6 Defendant to obtain a federal, State, or local permit or approval, Defendant shall  
7 submit a timely and complete application for such permit or approval and take all  
8 other actions necessary to obtain all such permits or approvals, allowing for all legally  
9 required processing and review including requests for additional information by the  
10 permitting or approval authority. The inability of Defendant to obtain a permit in  
11 adequate time to allow compliance with the deadlines stated in this Consent Decree  
12 may be considered a Force Majeure event if Defendant demonstrates that it exercised  
13 best efforts to timely fulfill its permitting obligations and has otherwise satisfied the  
14 requirements of Section XIV (Force Majeure) of this Consent Decree. If, after  
15 demonstrating compliance with the requirements of this Paragraph, Defendant  
16 determines that it is unable to timely obtain a permit or approval necessary to install  
17 and Continuously Operate Control Technology under this Consent Decree, then  
18 Defendant shall within 10 days notify EPA in writing pursuant to Section XIV (Force  
19 Majeure) of this Consent Decree and shall request an extension of time necessary to  
20 obtain such permit or approval and install and shake down the required  
21 improvements. If EPA determines that Defendant's inability to timely obtain any  
22 such required permit or approval is a Force Majeure event, then the provisions of  
23 Paragraph 67 shall apply to extend the deadline for installation and commencement of  
24  
25  
26  
27  
28



1 Continuous Operation of the Control Technology and for achieving and maintaining  
2 compliance with the applicable 30-Day Rolling Average Emission Limits.

3 41. In addition to having first obtained any required preconstruction permits or  
4 other approvals pursuant to Paragraph 40, within 3 months after the establishment of  
5 the final 30-Day Rolling Average Emission Limit for NO<sub>x</sub> established pursuant to  
6 Section V (NO<sub>x</sub> Control Technology, Emissions Limits and Monitoring  
7 Requirements), including Final Dispute Resolution if applicable, Defendant shall  
8 apply to NDEP to include the applicable requirements of Sections V.A (NO<sub>x</sub> Control  
9 Technology and Emission Limits) and VI.A (SO<sub>2</sub> Emission Limits), and any  
10 monitoring requirements, including those in Sections V.B (NO<sub>x</sub> Continuous Emission  
11 Monitoring System) and VI.B (SO<sub>2</sub> Continuous Emission Monitoring Systems) of  
12 this Consent Decree in a federally enforceable operating permit or other permit or  
13 approval issued under the SIP of Nevada and under authority independent of the  
14 NDEP's authority to issue Title V permits. For the purpose of this Paragraph, the  
15 ammonia monitoring requirements identified in Section V do not constitute NO<sub>x</sub>  
16 monitoring requirements. Following submission of the application for the permit or  
17 approval, Defendant shall cooperate with NDEP by promptly submitting all  
18 information that such permitting authority seeks following its receipt of the  
19 application for the permit. The methods specified in this Consent Decree for  
20 demonstrating compliance with the limits in this Consent Decree are not intended to  
21 change the means by which Defendant demonstrates compliance with standards not  
22 addressed by this Consent Decree. The requirements of this Paragraph are satisfied if  
23 a preconstruction permit was obtained, that permit serves as a state operating permit  
24  
25  
26  
27  
28

1 under the Nevada SIP and that permit contains the elements identified in this  
2 Paragraph.

3 42. Upon issuance of any permit or approval required under Paragraphs 40  
4 and 41, Defendant shall file any applications necessary to incorporate the  
5 requirements of that permit into the Title V operating permit of the Facility.  
6 Defendant shall not challenge the inclusion in any such permit of the Emission Limits  
7 expressly prescribed in this Consent Decree (including, where applicable, 30-Day  
8 Rolling Average Emission Limits for NO<sub>x</sub> determined in accordance with Appendix  
9 A) or of any other requirement of this Consent Decree.  
10  
11

12 43. For each Kiln, Defendant shall provide U.S. EPA with a copy of each  
13 application for a permit to address or comply with any provision of this Consent  
14 Decree, as well as a copy of any permit proposed as a result of such application, to  
15 allow for timely U.S. EPA participation in any public comment opportunity.  
16

17 44. In lieu of incorporating the terms of the Consent Decree directly into a  
18 permit issued under a SIP pursuant to Paragraph 41, Defendant may request that  
19 NDEP submit the portions of the Consent Decree applicable to the Facility in Nevada  
20 to the U.S. EPA for approval under the State's SIP in accordance with 42 U.S.C. §  
21 7410(k). Upon approval by the U.S. EPA, those portions of this Consent Decree will  
22 be incorporated into the Nevada SIP, and subsequently incorporated into Title V  
23 permits for the Facility consistent with applicable requirements in 40 C.F.R. Part 70  
24 or Nevada-specific rules adopted and approved consistent with Part 70. Defendant  
25 agrees not to contest the submittal of any such proposed SIP revision that  
26 incorporates the terms of this Consent Decree to U.S. EPA, or U.S. EPA's approval  
27  
28

1 of such submittal, or the incorporation of the applicable portions of this Consent  
2 Decree through these SIP requirements into the Title V permits.

3 **SECTION XI: REVIEW AND APPROVAL OF SUBMITTALS**

4  
5 45. After review of any plan, report, or other document that is required to be  
6 submitted pursuant to this Consent Decree, U.S. EPA, shall in writing: (a) approve  
7 the submission; (b) approve the submission upon specified conditions; (c) approve  
8 part of the submission and disapprove the remainder; or (d) disapprove the  
9 submission.  
10

11 46. If the submission is approved pursuant to Paragraph 45, Defendant shall  
12 take all actions required by the plan, report, or other document, in accordance with  
13 the schedules and requirements of the plan, report, or other document, as approved. If  
14 the submission is conditionally approved or approved only in part, pursuant to  
15 Paragraph 45.b or c, Defendant shall, upon written direction of U.S. EPA, take all  
16 actions required by the approved plan, report, or other item that U.S. EPA determines  
17 are technically severable from any disapproved portions, subject to Defendant's right  
18 to dispute the specified conditions or the disapproved portions, under Section XV  
19 (Dispute Resolution) of this Consent Decree and the severability of such portions.  
20

21 47. If the submission is disapproved in whole or in part pursuant to Paragraph  
22 45.c or d, Defendant shall, within 45 Days or such other time as the Parties agree to in  
23 writing, correct all deficiencies and resubmit the plan, report, or other item, or  
24 disapproved portion thereof, for approval, in accordance with the preceding  
25 Paragraphs. If the resubmission is approved in whole or in part, Defendant shall  
26 proceed in accordance with the preceding Paragraph.  
27  
28

1                   48. Any stipulated penalties applicable to an original submission that is  
2                   disapproved in whole or in part pursuant to Paragraph 45.c or d, as provided in  
3                   Section XIII (Stipulated Penalties) of this decree, shall continue to accrue during the  
4                   period specified in Paragraph 47, but any stipulated penalties that accrue following  
5                   the receipt of the submission shall not be payable unless the resubmission is untimely  
6                   or is disapproved in whole or in part; provided that, if the original submission was so  
7                   deficient as to constitute a material breach of Defendant's obligations under this  
8                   Decree, the stipulated penalties applicable to the original submission shall be due and  
9                   payable notwithstanding any subsequent resubmission.  
10

11  
12                   49. If a resubmitted plan, report, or other item, or portion thereof, is  
13                   disapproved in whole or in part, U.S. EPA may again require Defendant to correct  
14                   any deficiencies in accordance with the preceding Paragraphs, or may itself correct  
15                   any deficiencies and seek stipulated penalties, subject to Defendant's right to invoke  
16                   Dispute Resolution under Section XV (Dispute Resolution) of this Consent Decree.  
17

## 18                   **SECTION XII: REPORTING REQUIREMENTS**

19                   50. Within 30 Days after the end of each half calendar year (*i.e.*, June 30,  
20                   December 31) after the Effective Date, until termination of this Consent Decree  
21                   pursuant to Section XXIII (Termination), Defendant shall submit a semi-annual  
22                   report to U.S. EPA for the immediately preceding half calendar year period that shall:  
23

- 24                   a. Identify any and all dates on which Defendant has installed, or describe the  
25                   progress of installation of, each Control Technology required for each Kiln under  
26                   Section V (NO<sub>x</sub> Control Technology, Emission Limits and Monitoring  
27  
28

1 Requirements) and describe any problems encountered or anticipated during such  
2 installation, together with implemented or proposed solutions;

3  
4 b. Identify any and all dates on which Defendant has completed installation of, or  
5 describe the progress of installation of, each continuous monitoring system  
6 required under Section V.B (NO<sub>x</sub> and Ammonia Continuous Emission Monitoring  
7 Systems) and Section VI.B (SO<sub>2</sub> Continuous Emission Monitoring Systems) and  
8 describe any problems encountered or anticipated during such installation,  
9 together with implemented or proposed solutions;

10  
11 c. Provide, in electronic format able to be manipulated with Microsoft Excel, all  
12 CEMS data collected for each Kiln, reduced to 1 hour averages, in accordance  
13 with 40 C.F.R. § 60.13(h)(2), including an explanation of any periods of CEMS  
14 downtime together with any missing data for which Defendant applied missing  
15 data substitution procedures, under Section V.B (NO<sub>x</sub> and Ammonia Continuous  
16 Emission Monitoring Systems) or Section VI.B (SO<sub>2</sub> Continuous Emission  
17 Monitoring Systems);

18  
19 d. Demonstrate compliance with all applicable 30-Day Rolling Average Emission  
20 Limits of this Consent Decree;

21  
22 e. Provide a complete description and status of all actions Defendant has undertaken  
23 to comply with each of the Appendices of this Consent Decree;

24  
25 f. Describe the status of permit applications and any proposed SIP revisions made to  
26 implement the requirements of this Consent Decree; and

27  
28 g. Describe the status of any operation and maintenance work relating to activities  
required under this Consent Decree.

1 The semi-annual report shall also include a description of any non-compliance with the  
2 requirements of this Consent Decree and an explanation of the likely cause of non-compliance  
3 and of the remedial steps taken, or to be taken, to prevent or minimize such non-compliance.  
4

5 51. If Defendant violates, or has reason to believe that it may violate, any  
6 requirement of this Consent Decree, Defendant shall notify the United States of such  
7 violation and its likely duration, in writing (including by email), within ten (10)  
8 Business Days of the Day Defendant first becomes aware of the violation, with an  
9 explanation of the violation's likely cause and of the remedial steps taken, or to be  
10 taken, to prevent or minimize such violation and to mitigate any adverse effects of  
11 such violation. Defendant shall investigate the cause of the violation and shall then  
12 submit an amendment to the report required under Paragraph 50, including a full  
13 explanation of the cause of the violation, within 30 Days of the Day Defendant  
14 becomes aware of the cause of the violation. Nothing in this Paragraph or the  
15 following Paragraph relieves Defendant of its obligation to provide the notice  
16 required by Section XIV (Force Majeure) of this Consent Decree or to avail itself of  
17 Section XIV (Force Majeure) if Defendant contends a Force Majeure event occurred.  
18  
19  
20

21 52. Whenever any violation of this Consent Decree, or of any applicable  
22 permits required under this Consent Decree, or any other event affecting Defendant's  
23 performance under this Consent Decree, or the performance of the Kilns, may pose an  
24 immediate threat to the public health or welfare or the environment, Defendant shall  
25 notify U.S. EPA, orally or by electronic or facsimile transmission as soon as possible,  
26 but no later than 24 hours after Defendant first knew, or should have known, of the  
27  
28

1 violation or event. This procedure is in addition to the requirements set forth in the  
2 preceding Paragraph.

3 53. All reports shall be submitted to the persons designated in Section XIX  
4 (Notices) of this Consent Decree.  
5

6 54. Each report submitted by Defendant under this Section or Appendix A or  
7 Appendix B shall be signed by an official of the submitting party and include the  
8 following certification:

9 I certify under penalty of law that this document and all attachments  
10 were prepared under my direction or supervision in accordance with  
11 a system designed to assure that qualified personnel properly gather  
12 and evaluate the information submitted. Based on my inquiry of the  
13 person or persons who manage the system, or those persons directly  
14 responsible for gathering the information, the information submitted  
15 is, to the best of my knowledge and belief, true, accurate, and  
complete. I am aware that there are significant penalties for  
submitting false information, including the possibility of fine and  
imprisonment for knowing violations.

16 This certification requirement does not apply to emergency or similar notifications where  
17 compliance would be impractical. Failure to certify as immediately above is a violation of the  
18 Consent Decree and is subject to stipulated penalties.  
19

20 55. The reporting requirements of this Consent Decree do not relieve  
21 Defendant of any reporting obligations required by the Clean Air Act or  
22 implementing regulations, or by any other federal, State, or local law, regulation,  
23 permit, or other requirement.  
24

25 56. Any information provided pursuant to this Consent Decree may be used  
26 by the United States in any proceeding to enforce the provisions of this Consent  
27 Decree and as otherwise permitted by law.  
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**TABLE 2**

<b>Consent Decree Violation</b>	<b>Stipulated Penalty</b>
a. Failure to pay the civil penalty in the manner specified in Section IV (Civil Penalty) of this Consent Decree	\$7,500 for each Day
b. Failure to comply with a 30-Day Rolling Average Emission Limit for NO <sub>x</sub> or SO <sub>2</sub> where the emissions are less than 5% in excess of the limits set forth in this Consent Decree	\$1,000 for each Operating Day during any 30-Day rolling period where the violation is less than 5% in excess of the Limit
c. Failure to comply with a 30-Day Rolling Average Emission Limit for NO <sub>x</sub> or SO <sub>2</sub> where the emissions are equal to or greater than 5% but less than 10% in excess of the limits set forth in this Consent Decree	\$2,000 for each Operating Day during any 30-Day rolling period where the violation is equal to or greater than 5% but less than 10% in excess of the Limit
d. Failure to comply with a 30-Day Rolling Average Emission Limit for NO <sub>x</sub> or SO <sub>2</sub> where the emissions are equal to or greater than 10% in excess of the limits set forth in this Consent Decree	\$4,000 for each Operating Day during any 30-Day rolling period where the violation is equal to or greater than 10% in excess of the Limit
e. Failure to install or Commence Continuous Operation or Continuously Operate Control Technology at a Kiln required by the deadlines established in Section V (NO <sub>x</sub> Control Technology, Emission Limits and Monitoring Requirements) and/or Appendix A of this Consent Decree	\$5,000 for each consecutive Operating Day during the first 20 Days, \$ 10,000 for each consecutive Operating Day for the next 40 Days, and \$32,500 for each consecutive Operating Day thereafter
f. Failure to install or operate a CEMS or other monitoring device in conformance with the requirements of Section V.B. (NO <sub>x</sub> and Ammonia Continuous Emission Monitoring Systems), Section VI.B (SO <sub>2</sub> Continuous Emission Monitoring Systems), or Appendix A, as applicable. CEMS down time and missing data periods are not subject to stipulated penalties	\$1,000 for each Operating Day for each such failure per Kiln

Consent Decree Violation	Stipulated Penalty
g. Failure to apply for any permit or permit amendment or seek a SIP approval required by Section X (Permits) or provide a timely copy to USEPA	\$1,000 for each Day for each such failure
h. Failure to timely submit, modify, or implement, as approved, any report, plan, study, analysis, protocol, or other submittal required by this Consent Decree, including electronic versions as required, including those submissions approved pursuant to Section XI (Review and Approval of Submittals) of this Consent Decree	For each separate failure, \$750 for each Day during the first 10 Days, \$1,000 per Day thereafter
i. Failure to provide new owner or operator of the Facility a copy of this Consent Decree in accordance with Paragraph 4	\$1,000 for each Day for each such failure
j. Failure to provide certifications, progress reports, updates and/or a final report per the schedule in Paragraphs 50, 51, and 52	\$1,000 per Day for each Day late per project
k. Failure to maintain or instruct Contractors to maintain documents, records or other information that relate in any manner to performance of obligations in the Consent Decree, as per Paragraph 84	\$1,000 for each record or Day of data not collected or maintained as required
l. Any other violation of the Consent Decree	\$1,000 for each Day for each violation

58. Subject to the provisions of Paragraph 57 above, stipulated penalties under this Section shall begin to accrue on the Day after performance is due or on the Day a violation occurs, whichever is applicable, and shall continue to accrue until performance is satisfactorily completed or until the violation ceases. Stipulated penalties shall accrue simultaneously for separate violations of this Consent Decree but each separate violation shall be subject to no more than one stipulated penalty. All

1 stipulated penalties are subject to challenge by Defendant pursuant to Section XIV  
2 (Force Majeure).

3 59. Defendant shall pay any stipulated penalty within thirty (30) Days of  
4 receiving the United States' written demand.  
5

6 60. The United States may, in the unreviewable exercise of its discretion,  
7 reduce or waive stipulated penalties otherwise due the United States under this  
8 Consent Decree.  
9

10 61. Stipulated penalties shall accrue as provided in this Section, during any  
11 Dispute Resolution, but need not be paid until the following:

- 12 a. If the dispute is resolved by agreement between the Parties or by a decision of the  
13 United States that is not appealed to the Court, Defendant shall pay accrued  
14 penalties determined to be owing, together with interest accruing from the 31<sup>st</sup>  
15 Day after the written demand in Paragraph 59, within 30 Days of the effective  
16 date of the agreement or the receipt of U.S. EPA's decision or order.  
17
- 18 b. If the dispute is appealed to the Court and the United States is the prevailing  
19 party, in whole or in part, as may be determined by the Court, Defendant shall pay  
20 all accrued penalties determined by the Court to be owing, together with interest  
21 accruing from the 31<sup>st</sup> Day after the written demand in Paragraph 59, within 60  
22 Days of receiving the Court's decision or order, except as provided in  
23 Subparagraph c below.  
24
- 25 c. If any Party appeals the District Court's decision, Defendant shall pay all accrued  
26 penalties determined to be owing, together with interest accruing from the 31<sup>st</sup>  
27  
28

1 Day after the written demand in Paragraph 59, within 15 Days of receiving the  
2 final appellate court decision.

3 62. Defendant shall pay stipulated penalties owing to the United States in the  
4 manner set forth in Paragraph 9 and with the confirmation notices to the persons  
5 specified in Paragraph 95, except that the transmittal letter shall state that the payment  
6 is for stipulated penalties and shall state for which violation(s) the penalties are being  
7 paid.  
8

9 63. The United States may choose between (1) stipulated penalties and (2) any  
10 other right, remedy or sanction available to it, but not both. The payment of penalties  
11 and interest, if any, shall not alter in any way Defendant's obligation to complete the  
12 performance of the requirements of this Consent Decree. This Paragraph shall not  
13 limit the United States' ability to seek injunctive relief associated with such  
14 violations.  
15

16 64. Defendant shall not deduct stipulated penalties paid under this Section in  
17 calculating their federal, state or local income tax.  
18

19 65. If Defendant fails to pay stipulated penalties according to the terms of this  
20 Consent Decree, Defendant shall be liable for interest on such penalties, as provided  
21 for in 28 U.S.C. § 1961, accruing as of the date payment became due. Nothing in this  
22 Paragraph shall be construed to limit the United States from securing any remedy  
23 otherwise provided by law for Defendant's failure to pay any stipulated penalties.  
24

25 66. Subject to the provisions of Section XVII (Effect of  
26 Settlement/Reservation of Rights) of this Consent Decree, the stipulated penalties  
27 provided for in this Consent Decree shall be in addition to any other rights, remedies,  
28

1 or sanctions available to the United States for Defendant's violation of this Consent  
2 Decree or applicable law. Where a violation of this Consent Decree is also a violation  
3 of the Clean Air Act, Defendant shall be allowed a dollar-for-dollar credit, for any  
4 stipulated penalties paid, against any statutory penalties imposed for such violations.  
5

#### 6 **SECTION XIV: FORCE MAJEURE**

7 67. "Force Majeure" (for purposes of this Consent Decree) is defined as any  
8 event arising from causes beyond the control of Defendant, of any entity controlled  
9 by Defendant or Defendant's Contractors, that causes a delay or impediment to  
10 performance in complying with any obligation under this Consent Decree despite the  
11 Defendant's best efforts to fulfill the obligation. The requirement that the Defendant  
12 exercise best efforts to fulfill the obligation includes using best efforts to anticipate  
13 any potential Force Majeure event and best efforts to address the effects of any such  
14 event (a) as it is occurring and (b) after it has occurred to prevent or minimize any  
15 resulting delay and the effects of such event to the greatest extent possible. Force  
16 Majeure does not include the Defendant's financial inability to perform any  
17 obligation under this Consent Decree. Force Majeure may include Defendant's  
18 inability after demonstrating compliance with the requirements of Paragraphs 40 and  
19 41 to obtain a permit or approval such that there is adequate time to install and  
20 Continuously Operate Control Technology required under this Consent Decree.  
21  
22

23 68. If any event occurs or has occurred that may delay the performance of any  
24 obligation under this Consent Decree, whether or not caused by a Force Majeure  
25 event, Defendant shall provide written notice or notice by electronic mail (email) to  
26 the representatives of U.S. EPA designated to receive notice pursuant to Section XIX  
27  
28

1 (Notices) within seven (7) Business Days of when Defendant first knew that the event  
2 might cause a delay. Within 21 Days thereafter, Defendant shall provide in writing to  
3 U.S. EPA an explanation and description of the reasons for the delay; the anticipated  
4 duration of the delay; all actions taken or to be taken to prevent or minimize the  
5 delay; a schedule for implementation of any measures to be taken to prevent or  
6 mitigate the delay or the effect of the delay; Defendant's rationale for attributing such  
7 delay to a Force Majeure event if it intends to assert such a claim; and a statement as  
8 to whether, in the opinion of Defendant, such event may cause or contribute to an  
9 endangerment to public health, welfare or the environment. Defendant shall include  
10 with any notice all available documentation supporting the claim that the delay was  
11 attributable to a Force Majeure. Failure to comply with the above requirements shall  
12 preclude Defendant from asserting any claim of Force Majeure for that event for the  
13 period of time of such failure to comply, and for any additional delay caused by such  
14 failure. Defendant shall be deemed to know of any circumstance of which Defendant,  
15 any entity controlled by Defendant, or Defendant's Contractors knew or should have  
16 known.  
17

20 69. If U.S. EPA agrees that the delay or anticipated delay is attributable to a  
21 Force Majeure event, the time for performance of the obligations under this Consent  
22 Decree that are affected by the Force Majeure event will be extended by U.S. EPA for  
23 such time as is necessary to complete those obligations. An extension of the time for  
24 performance of the obligations affected by the Force Majeure event shall not, of  
25 itself, extend the time for performance of any other obligation. U.S. EPA will notify  
26  
27  
28

1 Defendant in writing of the length of the extension, if any, for performance of the  
2 obligations affected by the Force Majeure event.

3 70. If U.S. EPA does not agree that the delay or anticipated delay has been or  
4 will be caused by a Force Majeure event, U.S. EPA will notify Defendant in writing  
5 of its decision.  
6

7 71. If Defendant elects to invoke the dispute resolution procedures set forth in  
8 Section XV (Dispute Resolution), it shall do so no later than 15 Days after receipt of  
9 U.S. EPA's notice. In any such proceeding, Defendant shall have the burden of  
10 demonstrating by a preponderance of the evidence that the delay or anticipated delay  
11 has been or will be caused by a Force Majeure event, that the duration of the delay or  
12 the extension sought was or will be warranted under the circumstances, that best  
13 efforts were exercised to avoid and mitigate the effects of the delay, and that  
14 Defendant complied with the requirements of Paragraphs 67 and 68, above. If  
15 Defendant carries this burden, the delay at issue shall be deemed not to be a violation  
16 by Defendant of the affected obligation of this Consent Decree identified to U.S. EPA  
17 and the Court.  
18  
19

#### 20 **SECTION XV: DISPUTE RESOLUTION**

21 72. Unless otherwise expressly provided for in this Consent Decree, the  
22 dispute resolution procedures of this Section shall be the exclusive mechanism to  
23 resolve disputes arising under or with respect to this Consent Decree. Defendant's  
24 failure to seek resolution of a dispute under this Section shall preclude Defendant  
25 from raising any such issue as a defense to an action by the United States or Affected  
26 State to enforce any obligation of Defendant arising under this Consent Decree.  
27  
28

1                   73. Informal Dispute Resolution for Emission Limit Setting Process under  
2                   Appendix A. If Defendant invokes Dispute Resolution regarding an EPA-established  
3                   alternative final 30-Day Rolling Average Emission Limit for NO<sub>x</sub>, Defendant shall  
4                   promptly (within 15 days) initiate the process set forth in this Paragraph to hire an  
5                   independent Contractor who will be tasked to analyze the 30-Day Rolling Average  
6                   Emission Limits for NO<sub>x</sub> established by EPA and proposed by Defendant and to  
7                   provide, for the benefit of both U.S. EPA and Defendant, the reports, analysis, and  
8                   services identified in this Paragraph, below, by the specified deadlines. Defendant  
9                   shall bear all costs associated with the Contractor's work up to \$100,000, and shall  
10                  provide the Contractor access to records, employees, contracts, and facilities which  
11                  are reasonably necessary to complete the report required by this Paragraph. If costs  
12                  to perform the work set forth in the Scope of Work (SOW) requirements described in  
13                  this Paragraph are expected to be higher than \$100,000, Defendant and U.S. EPA  
14                  will, upon written mutual agreement, limit or modify the nature and/or scope of the  
15                  work to be performed under this Paragraph to meet the expenditure limitation. For  
16                  purposes of this Paragraph, "independent" shall mean a qualified professional with at  
17                  least 5 years of experience relating to the operations of and/or emissions from cement  
18                  kilns or similar sources and who has not previously been employed or retained by  
19                  Defendant in any capacity (unless otherwise approved by U.S. EPA).

- 20  
21  
22  
23  
24                  a. Defendant shall submit to U.S. EPA for approval, the name and qualifications of a  
25                  proposed Contractor for this engagement at the time it submits its Written Notice  
26                  of Dispute in accordance with Section XIX (Notices). If U.S. EPA disapproves of  
27                  the Contractor, Defendant is required to propose to U.S. EPA within 15 Days of  
28



1 the disapproval a different Contractor, also subject to U.S. EPA's approval. If  
2 U.S. EPA disapproves the second Contractor, U.S. EPA may choose and identify  
3 to Defendant the Contractor to be employed. Defendant shall enter into a contract  
4 with the Contractor, containing the SOW requirements in Paragraph 73.b, below  
5 (as modified to meet the expenditure limitations), within 14 Days of U.S. EPA's  
6 approval or final identification of the Contractor.  
7

8 b. As part of the contract, Defendant shall provide to the Contractor a SOW which  
9 will include a requirement or direction to:  
10

11 i. Analyze all the data collected under Appendix A, as well as the  
12 Demonstration Report, and proposed 30-Day Rolling Average Emission  
13 Limits for NO<sub>x</sub>;

14 ii. Submit to U.S. EPA and Defendant, a report on the appropriate 30-day  
15 rolling average emission limit, consistent with the methodology set forth  
16 in and information collected through Appendix A, as applicable, based  
17 upon the injection rates and the operational parameters approved as part of  
18 the SNCR Design Reports and the SNCR Optimization Reports required  
19 by Appendix A, as applicable. The conclusions of this report shall be  
20 based on all of the information and data collected during the SNCR  
21 Optimization and Demonstration Periods, as applicable, as well as any  
22 additional site-specific information available to the Contractor. The report  
23 shall include a section on whether the data collected during the  
24 Demonstration Period is representative of normal operations of the unit, as  
25  
26  
27  
28

1 well as a recommended final 30-Day Rolling Average Emission Limit for  
2 NO<sub>x</sub> using the protocol and procedures in Appendix A, as applicable;  
3  
4 iii. Make available to U.S. EPA any and all data evaluated, and reveal all  
5 communications with Defendant in the course of work pursuant to the  
6 SOW. The Contractor shall also be tasked in the SOW to attend up to 15  
7 hours of meetings specifically requested by U.S. EPA, to answer questions  
8 concerning any analysis or work undertaken pursuant to the SOW.  
9 Defendant may attend any such meeting between U.S. EPA and the  
10 Contractor. The SOW shall make clear that the Contractor is free to  
11 discuss its analysis, findings and the content of their report with U.S. EPA  
12 prior to the completion of the report; and  
13  
14 iv. Complete the Contractor report within 45 Days from the time of the  
15 effective date of the contract.  
16

17 c. The results of the Contractor report will inform the parties in the process of  
18 engaging in informal dispute resolution on the proposed and final permit limit.  
19

20 74. If the United States and Defendant are unable to reach agreement on a  
21 final 30-Day Rolling Average Emission Limit for NO<sub>x</sub> within 20 Days after receipt of  
22 the Contractor report by EPA referenced in the prior paragraph, Defendant may  
23 request formal dispute resolution under Paragraph 76 of this Consent Decree. The  
24 Contractor report shall be part of the Dispute Resolution record in any formal dispute  
25 proceedings under this Consent Decree.  
26

27 75. Informal Dispute Resolution with Respect to All Other Disputes. Any  
28 dispute subject to Dispute Resolution under this Consent Decree shall first be the

1 subject of informal negotiations. The dispute shall be considered to have arisen when  
2 Defendant sends the United States a written Notice of Dispute. Such Notice of  
3 Dispute shall state clearly the matter in dispute. The period of informal negotiations  
4 shall not exceed 30 Days from the date the dispute arises, unless that period is  
5 modified by written agreement. If the Parties cannot resolve a dispute by informal  
6 negotiations, then the position advanced by the United States shall be considered  
7 binding unless, within 30 Days after the conclusion of the informal negotiation  
8 period, Defendant invokes formal dispute resolution procedures as set forth below.  
9

10  
11 76. Formal Dispute Resolution. Defendant shall invoke formal dispute  
12 resolution procedures, within the time period provided in the preceding Paragraph, by  
13 serving on the United States a written Statement of Position regarding the matter in  
14 dispute. The Statement of Position shall include, but need not be limited to, any  
15 factual data, analysis, or opinion supporting Defendant's position and any supporting  
16 documentation relied upon by Defendant.  
17

18 77. The United States shall serve its Statement of Position within 45 Days of  
19 receipt of Defendant's Statement of Position. The United States' Statement of  
20 Position shall include, but need not be limited to, any factual data, analysis, or  
21 opinion supporting that position and any supporting documentation relied upon by the  
22 United States. The United States' Statement of Position shall be binding on  
23 Defendant, unless Defendant files a motion for judicial review of the dispute in  
24 accordance with the following Paragraph.  
25

26 78. Defendant may seek judicial review of the dispute by filing with the Court  
27 and serving on the United States, in accordance with Section XIX (Notices) of this  
28

1 Consent Decree, a motion requesting judicial resolution of the dispute. The motion  
2 must be filed within 20 Days of receipt of the United States Statement of Position  
3 pursuant to the preceding Paragraph. The motion shall contain a written statement of  
4 Defendant's position on the matter in dispute, including any supporting factual data,  
5 analysis, opinion, or documentation, and shall set forth the relief requested and any  
6 schedule within which the dispute must be resolved for orderly implementation of the  
7 Consent Decree.  
8

9  
10 79. The United States shall respond to Defendant's motion within the time  
11 period allowed by the Local Rules of this Court. Defendant may file a reply  
12 memorandum, to the extent permitted by the Local Rules.

13 80. Standard of Review.

- 14  
15 a. Disputes Concerning Matters Accorded Record Review. Except as otherwise  
16 provided in this Consent Decree, in any dispute brought under Paragraph 76  
17 pertaining to the adequacy or appropriateness of plans, procedures to implement  
18 plans, schedules or any other items requiring approval by EPA under this Consent  
19 Decree; the adequacy of the performance of work undertaken pursuant to this  
20 Consent Decree; and all other disputes that are accorded review on the  
21 administrative record under applicable principles of administrative law,  
22 Defendant shall have the burden of demonstrating, based on the administrative  
23 record, that the position of the United States is arbitrary and capricious or  
24 otherwise not in accordance with law or the Consent Decree.  
25  
26 b. Other Disputes. Except as otherwise provided in this Consent Decree, in any  
27 other dispute brought under Section XV (Dispute Resolution), Defendant shall  
28

1 bear the burden of demonstrating that its position complies with this Consent  
2 Decree.

3 81. The invocation of dispute resolution procedures under this Section shall  
4 not, by itself, extend, postpone, or affect in any way any obligation of Defendant  
5 under this Consent Decree, unless and until final resolution of the dispute so provides.  
6 Stipulated penalties with respect to the disputed matter shall continue to accrue from  
7 the first Day of noncompliance, but payment shall be stayed pending resolution of the  
8 dispute as provided in Paragraph 61. If Defendant does not prevail on the disputed  
9 issue, stipulated penalties shall be assessed and paid as provided in Section XIII  
10 (Stipulated Penalties).  
11  
12

13 **SECTION XVI: INFORMATION COLLECTION AND RETENTION**

14 82. The United States and their representatives, including attorneys,  
15 contractors, and consultants, shall have the right of entry into the facility covered by  
16 this Consent Decree, at all reasonable times, upon presentation of credentials, to:  
17  
18 a. monitor the progress of activities required under this Consent Decree;  
19  
20 b. verify any data or information submitted to the United States in accordance with  
21 the terms of this Consent Decree;  
22  
23 c. conduct performance testing;  
24  
25 d. obtain documentary evidence, including photographs and similar data; and  
26  
27 e. assess Defendant's compliance with this Consent Decree.  
28

83. Upon request, Defendant shall provide U.S. EPA and its authorized  
representatives copies of analytical data from Kiln performance testing performed by

1 Defendant. Upon request, U.S. EPA shall provide Defendant copies of analytical data  
2 from Kiln performance testing performed by U.S. EPA.

3  
4 84. Until five years after the termination of this Consent Decree, Defendant  
5 shall retain, and shall instruct its Contractors and agents to preserve, all non-identical  
6 copies of all documents, records, or other information (including documents, records,  
7 or other information in electronic form) in its or its Contractors' or agents' possession  
8 or control, or that come into its or its Contractors' or agents' possession or control,  
9 and that relate in any manner to Defendant's performance of its obligations under this  
10 Consent Decree. This information-retention requirement shall apply regardless of  
11 any contrary corporate or institutional policies or procedures. At any time during this  
12 information-retention period, upon request by the United States Defendant shall  
13 provide copies of any documents, records, or other information required to be  
14 maintained under this Paragraph.  
15  
16

17 85. Defendant may also assert that information required to be provided under  
18 this Section is protected as Confidential Business Information ("CBI") under 40  
19 C.F.R. Part 2. As to any information that Defendant seeks to protect as CBI,  
20 Defendant shall follow the procedures set forth in 40 C.F.R. Part 2.  
21

22 86. This Consent Decree in no way limits or affects any right of entry and  
23 inspection, or any right to obtain information, held by the United States pursuant to  
24 applicable federal or state laws, regulations, or permits, nor does it limit or affect any  
25 duty or obligation of Defendant to maintain documents, records, or other information  
26 imposed by applicable federal or state laws, regulations, or permits.  
27  
28

1                   **SECTION XVII: EFFECT OF SETTLEMENT/RESERVATION OF RIGHTS**

2                   87. Resolution of Liability. Entry of this Consent Decree shall resolve the  
3 civil claims of the United States for the violations alleged in the Complaint filed in  
4 this action and in the two Notices of Violation (NOVs) issued by the U.S. EPA dated  
5 October 5, 2010 and March 12, 2014, through the date the Consent Decree is lodged  
6 with the Court.  
7

8                   88. Notwithstanding the resolution of liability in Paragraph 87, nothing in this  
9 Consent Decree precludes the United States from seeking from Defendant injunctive  
10 relief, penalties, or other appropriate relief for violations by Defendant of the  
11 regulatory requirements identified in Paragraph 87 resulting from (1) construction or  
12 modification that commenced prior to the Date of Lodging of the Consent Decree, if  
13 the resulting violations do not arise from the conduct specifically resolved by  
14 Paragraph 87 or do not relate to NO<sub>x</sub>, or SO<sub>2</sub> or (2) any construction, reconstruction  
15 or modification that commences after the Date of Lodging of the Consent Decree.  
16  
17

18                   89. The United States reserves all legal and equitable remedies available to  
19 enforce the provisions of this Consent Decree. This Consent Decree shall not be  
20 construed to limit the rights of the United States to obtain penalties or injunctive relief  
21 under the Act or implementing regulations, or under other federal or State laws,  
22 regulations, or permit conditions, except as expressly specified in Paragraphs 87 and  
23 63. The United States further reserves all legal and equitable remedies to address any  
24 imminent and substantial endangerment to the public health or welfare or the  
25 environment arising at, or posed by, the Defendant's Facility, whether related to the  
26 violations addressed in this Consent Decree or otherwise.  
27  
28

1                   90. In any subsequent administrative or judicial proceeding initiated by the  
2 United States for injunctive relief, civil penalties, other appropriate relief relating to  
3 the Facility or Defendant's violations, Defendant shall not assert, and may not  
4 maintain, any defense or claim based upon the principles of waiver, res judicata,  
5 collateral estoppel, issue preclusion, claim preclusion, claim-splitting, or other  
6 defenses based upon any contention that the claims raised by the United States in the  
7 subsequent proceeding were or should have been brought in the instant case, except  
8 with respect to claims that have been specifically resolved pursuant to Paragraph 87  
9 of this Consent Decree.  
10

11  
12                   91. This Consent Decree is not a permit, or a modification of any permit,  
13 under any federal, State, or local laws or regulations. Defendant is responsible for  
14 achieving and maintaining complete compliance with all applicable federal, State, and  
15 local laws, regulations, and permits; and the Defendant's compliance with this  
16 Consent Decree shall be no defense to any action commenced pursuant to any such  
17 laws, regulations, or permits, except as set forth herein. The United States does not,  
18 by its consent to the entry of this Consent Decree, warrant or aver in any manner that  
19 Defendant's compliance with any aspect of this Consent Decree will result in  
20 compliance with provisions of the Act, 42 U.S.C. §§ 7401 *et seq.*, or with any other  
21 provisions of federal, State, or local laws, regulations, or permits.  
22

23  
24                   92. This Consent Decree does not limit or affect the rights of Defendant or of  
25 the United States against any third parties, not party to this Consent Decree, nor does  
26 it limit the rights of third parties, not party to this Consent Decree, against Defendant,  
27 except as otherwise provided by law.  
28



1                   93. This Consent Decree shall not be construed to create rights in, or grant any  
2                   cause of action to, any third party not party to this Consent Decree.

3                   **SECTION XVIII: COSTS**

4                   94. The Parties shall bear their own costs of this action, including attorneys'  
5                   fees, except that the United States shall be entitled to collect the costs (including  
6                   attorneys' fees) incurred in any action necessary to collect any portion of the civil  
7                   penalty or any stipulated penalties due but not paid by Defendant.

8                   **SECTION XIX: NOTICES**

9                   95. Unless otherwise specified herein, whenever notifications, submissions, or  
10                  communications are required by this Consent Decree, they shall be made in writing  
11                  and addressed as follows:

12                  To U.S. EPA by USPS mail:

13                  Phillip A. Brooks  
14                  Director, Air Enforcement Division  
15                  U.S. Environmental Protection Agency  
16                  MC 2242A  
17                  ATTN: Shaun Burke  
18                  1200 Pennsylvania Ave. NW  
19                  Washington, D.C. 20460

20                  And

21                  Chief, Air and TRI Section  
22                  Enforcement Division  
23                  ATTN: Charles Aldred  
24                  U.S. Environmental Protection Agency, Region 9  
25                  75 Hawthorne Street  
26                  San Francisco, California 94105

27                  Email notices should be sent to Aldred.Charles@epa.gov .

28                  To the United States (in addition to the U.S. EPA addresses above):

EES Case Management Unit

1 Environment and Natural Resources Division  
2 U.S. Department of Justice  
3 Box 7611 Ben Franklin Station  
4 Washington, D.C. 20044-7611  
5 Re: DOJ No. 90-5-2-1-10458

6 To the United States by email:  
7 [eescopy.enrd@usdoj.gov](mailto:eescopy.enrd@usdoj.gov)

8 Include in the Subject line: Re: DJ# 90-5-2-1-10458 U.S. v. Nevada Cement Co., Inc.

9 To Nevada Cement Company:

10 Joe Sells,  
11 President,  
12 Nevada Cement Company  
13 I-80 at Exit 46  
14 P.O. Box 840  
15 Fernley, NV 89408-0840

16 Chuck Kellett  
17 Senior Corporate Engineer  
18 Eagle Materials  
19 3811 Turtle Creek Blvd., Suite 1100  
20 Dallas, TX 75219

21 James Graass  
22 Executive Vice President, General Counsel, Eagle Materials  
23 3811 Turtle Creek Blvd., Suite 1100  
24 Dallas, TX 75219

25 96. Any Party may, by written notice to the other Party, change its designated  
26 notice recipient or notice address provided above. In addition, any Party may submit  
27 any written notification, submission, or communication under this Consent Decree by  
28 electronic means.

97. Notices submitted pursuant to this Section shall be deemed submitted  
upon mailing or emailing, unless otherwise provided in this Consent Decree or by  
mutual agreement of the Parties in writing.

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1 Party seeking the modification bears the burden of demonstrating that it is entitled to  
2 the requested modification in accordance with Federal Rule of Civil Procedure 60(b).  
3

4 **SECTION XXIII: TERMINATION**

5 102. Complete Termination. After Defendant has complied with the  
6 requirements of Section V (NO<sub>x</sub> Control Technology, Emission Limits, and  
7 Monitoring Requirements), Section VI (SO<sub>2</sub> Emission Limits, and Monitoring  
8 Requirements), and Section X (Permits) of this Consent Decree, including  
9 Continuously Operating any Control Technology as required by this Consent Decree  
10 for both Kilns, for a period of five years after establishment of the NO<sub>x</sub> Final  
11 Emissions Limits pursuant to Section V (NO<sub>x</sub> Control Technology, Emission Limits,  
12 and Monitoring Requirements), has complied with all other requirements of this  
13 Consent Decree, and has paid the civil penalty and any accrued stipulated penalties as  
14 required by this Consent Decree, Defendant may serve upon the United States a  
15 Request for Termination of the Consent Decree, stating that Defendant has satisfied  
16 those requirements, together with all necessary supporting documentation. If the  
17 United States agrees that the Decree as it relates to both Kilns may be terminated, the  
18 Parties shall submit, for the Court's approval, a joint stipulation terminating those  
19 provisions of the Decree.  
20  
21  
22

23 103. If the United States does not agree that the Decree as a whole, or as  
24 it relates to an individual Kiln, may be terminated, Defendant may invoke Dispute  
25 Resolution under Section XV (Dispute Resolution) of this Consent Decree. However,  
26 Defendant shall not seek Dispute Resolution of any dispute regarding termination  
27 under this Section until sixty (60) Days after service of its Request for Termination.  
28

[illegible]

**SECTION XXV: SIGNATORIES/SERVICE/ANSWER**

105. The Assistant Attorney General for the Environment and Natural Resources Division of the Department of Justice and each undersigned representative of Defendant certifies that he or she is fully authorized to enter into the terms and conditions of this Consent Decree and to execute and legally bind the Party he or she represents to this document.

52

1 authorized to accept service of process by mail on behalf of Defendant with respect to  
2 all matters arising under or relating to this Consent Decree. All Parties agree that  
3 Defendant need not file an answer or otherwise respond to the Complaint in this  
4 action unless or until the Court expressly declines to enter this Consent Decree.  
5

6 **SECTION XXVI: INTEGRATION**

7 107. This Consent Decree constitutes the final, complete, and exclusive  
8 agreement and understanding among the Parties with respect to the settlement  
9 embodied in the Decree and supersedes all prior agreements and understandings,  
10 whether oral or written, concerning the settlement embodied herein. No other  
11 document, nor any representation, inducement, agreement, understanding or promise  
12 constitutes any part of this Consent Decree or the settlement it represents, nor shall it  
13 be used in construing the terms of this Consent Decree.  
14  
15

16 **SECTION XXVII: FINAL JUDGMENT**

17 108. Upon approval and entry of this Consent Decree by the Court, this  
18 Consent Decree shall constitute a final judgment of the Court as to the United States  
19 and the Defendant.  
20

21 **SECTION XXVIII: APPENDICES**

22 109. The following Appendices are attached to and incorporated as part  
23 of this Consent Decree:

24 “Appendix A” contains the Test-and-Set Protocol for NO<sub>x</sub> Emission Limit requirements  
25 that apply to each Kiln under this Consent Decree subject to those requirements.  
26

27 “Appendix B” contains the Environmental Mitigation Projects Requirements.  
28

1 All terms in the Appendices shall be construed in a manner consistent with this Consent  
2 Decree.

3 **SECTION XXIX: HEADINGS**

4  
5 110. Headings to the section and subsections of this Consent Decree are  
6 provided for convenience and do not affect the meaning or interpretation of the  
7 provisions of this Consent Decree.


8 Dated and entered this 4th Day of October 2017

9  
10 

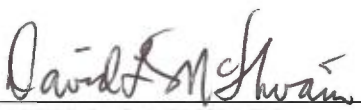
11 UNITED STATES DISTRICT COURT JUDGE  
12 District of Nevada  
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1 **Signature Page to the Consent Decree in *United States v. Nevada Cement Company***

2 FOR PLAINTIFF UNITED STATES OF AMERICA:

3  
4   
5 BRUCE S. GELBER  
6 Deputy Assistant Attorney General  
7 Environment and Natural Resources  
8 Division  
9 United States Department of Justice

Date: 3/20/17

9  
10   
11 DAVID L. McILWAIN  
12 Trial Attorney  
13 Environmental Enforcement Section  
14 Environment and Natural Resources Division  
15 United States Department of Justice  
16 P.O. Box 7611  
17 Washington, D.C. 20044-7611  
18 (202) 514-1544 (Tel.)  
19 (202) 514-0097 (Fax)  
20 [David.McIlwain@usdoj.gov](mailto:David.McIlwain@usdoj.gov)

Date: \_\_\_\_\_



1 **Signature Page to the Consent Decree in *United States v. Nevada Cement Company***

2 FOR PLAINTIFF UNITED STATES OF AMERICA:

3 STEVEN W. MYHRE

4 Acting United States Attorney  
5 District of Nevada

6 GREG ADDINGTON

7 Assistant United States Attorney

8 U.S. Attorney's Office

9 District of Nevada

10 100 West Liberty

11 Suite 600

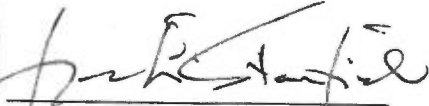
12 Reno, Nevada 89501

13 (775) 784-5438

14 [Greg.Addington@usdoj.gov](mailto:Greg.Addington@usdoj.gov)

1 **Signature Page to the Consent Decree in *United States v. Nevada Cement Company***

2 **FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:**

3  
4 

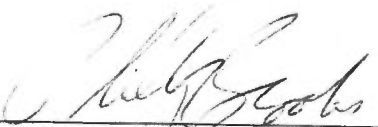
Date: 3/6/17

5 **LAWRENCE E. STARFIELD**  
6 Acting Assistant Administrator  
7 Office of Enforcement and Compliance Assurance  
8 United States Environmental Protection Agency

9  
10 

Date: 3/1/17

11 **SUSAN SHINKMAN**  
12 Director, Office of Civil Enforcement  
13 United States Environmental Protection Agency

14  
15 

Date: 2/27/2017

16 **PHILLIP A. BROOKS**  
17 Director, Air Enforcement Division  
18 Office of Enforcement and Compliance Assurance  
19 United States Environmental Protection Agency

20  
21 

Date: 2/22/17

22 **ROBERT G. KLEPP**  
23 Attorney, Air Enforcement Division  
24 Office of Enforcement and Compliance Assurance  
25 United States Environmental Protection Agency  
26  
27  
28

1 **Signature Page to the Consent Decree in *United States v. Nevada Cement Company***

2 FOR THE U.S. ENVIRONMENTAL PROTECTION AGENCY  
3 REGION 9:

4  
5 

Date: 30 Jan. 2017

6 ALEXIS STRAUSS  
7 Acting Regional Administrator U.S. Environmental Protection Agency, Region 9  
8 75 Hawthorne Street  
9 San Francisco, California 94105

10 

Date: 1/30/17

11 IVAN LIEBEN  
12 Attorney  
13 Office of Regional Counsel

14 

Date: 1/30/2017

15 DAVID KIM  
16 Attorney  
17 Office of Regional Counsel  
18  
19  
20  
21  
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1 **Signature Page to the Consent Decree in *United States v. Nevada Cement Company***

2

3

4

FOR DEFENDANT NEVADA  
CEMENT COMPANY:

5

Joseph P. Sells

Date: 01/23/2017

6

Joseph P. Sells  
President

7

Nevada Cement Company  
I-80 at Exit 46. P.O. Box 840  
Fernley, NV 89408-0840

8

9

10

11

The following is the name and address of Defendant Nevada Cement Company's agent for service pursuant to Paragraph 106.

12

13

Joseph P. Sells  
President  
Nevada Cement Company  
I-80 at Exit 46. P.O. Box 840  
Fernley, NV 89408-0840

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**Appendix A to Consent Decree**  
**Test-and-Set Protocol For NO<sub>x</sub> Emission Limit**

**I. Scope and Applicability**

1. Defendant shall comply with the requirements contained in this Appendix A regarding installation and optimization of selective non-catalytic reduction technology ("SNCR") and, if necessary, Low NO<sub>x</sub> Burners ("LNB") in establishing 30-Day Rolling Average Emission Limits for NO<sub>x</sub> for Kiln 1 and Kiln 2 at the Facility.
2. If Kiln operation is disrupted by unplanned outages, or excessive startups and Shutdowns during the CEMS Installation and Operation Period, Baseline Collection Period, SNCR Optimization Period, or SNCR Demonstration Period, or if the Kiln temporarily ceases operation for business or technical reasons, Defendant may request that EPA extend the CEMS Installation and Operation Period, Baseline Collection Period, SNCR Optimization Period or SNCR Demonstration Period pursuant to Section XI (Review and Approval of Submittals). EPA shall grant or deny the request and shall state the amount of time (if any) that the CEMS Installation and Operation Period, Baseline Collection Period, SNCR Optimization Period, or SNCR Demonstration Period, may be extended, which decision is subject to the Section XV (Dispute Resolution) provisions of the Consent Decree. Defendant may not suspend the CEMS Installation and Operation Period, Baseline Collection Period, SNCR Optimization Period, or SNCR Demonstration Period until and unless EPA has granted the request. Data gathered during periods of disruption may not be used to determine any emission calculations or limitations unless both Defendant and EPA agree to use the subject data. All collected data shall be included in each applicable report.

**II. CEMS Installation and Operation**

1. No later than December 31, 2017, Defendant shall complete installation on Kiln 2, a NO<sub>x</sub> continuous emissions monitoring system ("CEMS") certified and compliant with 40 C.F.R. Part 60. By February 1, 2018, Defendant shall complete installation of a NO<sub>x</sub> CEMS on Kiln 1 that is certified and compliant with 40 C.F.R. Part 60.
2. Defendant shall install an Ammonia CEMS on Kilns 1 and 2 in conjunction with the installation of the NO<sub>x</sub> CEMS pursuant to Paragraph II.1 of this Appendix. The Ammonia CEMS shall be operated whenever the NO<sub>x</sub> CEMS is used during baseline testing and the test-and-set processes.

### III. Baseline Collection Period

1. Defendant shall use CEMS to collect emissions data for NO<sub>x</sub> and Ammonia from the Kilns. Defendant shall monitor and collect operational data as discussed in Paragraph III.2.a of this Appendix.
2. The Baseline Collection Period shall begin within 30 days after installation of Ammonia CEMS and certified NO<sub>x</sub> CEMS on each Kiln. The duration of the Baseline Collection Period shall last for 120 Operating Days and be undertaken during periods of Kiln Operation.
  - a. The data collected during the Baseline Collection Period and through to the end of the SNCR Demonstration Period or the LNB Demonstration Period shall include the following data derived from available direct monitoring or estimated from monitored or measured data:
    - i. Kiln flue gas temperature at the inlet to the fabric filter or at the Kiln stack (daily average);
    - ii. Kiln production in Tons of clinker (daily total) and the method used to calculate Kiln production;
    - iii. Raw material feed in Tons (daily total);
    - iv. Type and percentage of each raw material used (daily);
    - v. NO<sub>x</sub>, SO<sub>2</sub>, and Ammonia concentrations (dry basis) and mass rates of NO<sub>x</sub> and SO<sub>2</sub> for Kilns 1 and 2;
    - vi. Flue gas volumetric flow rate (daily average in dry acfm);
    - vii. Feed burnability (C3S) (at least daily);
    - viii. Temperatures in or near the burning zone (by infrared or optical pyrometer);
    - ix. Kiln system fuel feed rate and type of fuel by weight or heat input rate (calculated to a daily average);
    - x. Kiln amps (daily average);
    - xi. Kiln back end O<sub>2</sub> concentration (daily average);

- xii. Kiln system draft fan settings;
- xiii. Documentation of any Startup, Shutdown, or Malfunction events;  
and
- xiv. An explanation of any gaps in the data or missing data.

- b. The Defendant shall submit a Baseline Collection Report for each Kiln within 30 days after the deadline for the end of the Baseline Collection Period on each Kiln. The Baseline Collection Report shall include the data collected during the Baseline Collection Period and a calculation of the Baseline NO<sub>x</sub> Emissions as defined in Paragraph 8.e of Section III (Definitions).
- c. Hours or days when there is no Kiln Operation shall be excluded from the calculation in Paragraph III.2.b of Appendix A. However, Defendant shall provide an explanation in the Baseline Collection Report for any data excluded and provide the excluded data in the Baseline Collection Report.
- d. When submitted, Defendant shall provide the data to EPA in the Baseline Collection Report in an electronic format, consistent with and able to be manipulated by Microsoft Excel, and shall explain the reasons for any data not collected for each of the parameters.

#### **IV. SNCR Design, Installation, Optimization, and Demonstration Requirements**

##### **1. SNCR Design Report:**

- a. Defendant shall submit to EPA for approval pursuant to Section XI (Review and Approval of Submittals) of the Consent Decree within 180 days from the Date of Entry, a design report for SNCR for Kiln 1 and Kiln 2 ("SNCR Design Report").
- b. Defendant shall design each SNCR system to be capable of delivering the proposed reagent at a maximum rate of at least 1.4 mols of reagent to 1.0 mols of NO<sub>x</sub> (1.4:1 molar ratio) at all times based on Baseline NO<sub>x</sub> Emissions collected pursuant to this Appendix A, and shall design each system consistent with vendor recommendations for reducing NO<sub>x</sub> emissions from each Kiln. The system shall be designed to inject Ammonia into the Kiln gas stream based upon the Ammonia Slip measured by the Ammonia CEMS.

- 1
- 2 c. Defendant shall specify in the Design Report the reagent(s) selected, the
- 3 location selected for reagent injection, and other design parameters. The
- 4 design of the SNCR shall be based on maximum emission reduction
- 5 effectiveness, good engineering judgment, vendor standards, available
- 6 data, Kiln operability, and regulatory restrictions on reagent storage and
- 7 use. Subsequent to EPA's approval of the 30-Day Rolling Average
- 8 Emission Limits for NO<sub>x</sub>, Defendant shall have the right to use any type or
- 9 quantity of reagent, provided it continues to meet the final emission limit
- 10 set using Ammonia.
- 11
- 12 d. Any permit application that may be required under state or federal law for
- 13 the SNCR shall be consistent with the approved Design Report.

14 2. SNCR Optimization Protocol:

- 15 a. Defendant shall submit to EPA for approval pursuant to Section XI
- 16 (Review and Approval of Submittals) of the Consent Decree within 60
- 17 days of submittal of the SNCR Design Report a protocol (the "SNCR
- 18 Optimization Protocol") for optimizing each SNCR, including
- 19 optimization of the operational parameters resulting in the minimization of
- 20 emissions of NO<sub>x</sub> to the greatest extent practicable without violating any
- 21 limits for other pollutants. If EPA's action taken pursuant to the Section
- 22 XI (Review and Approval of Submittals) provisions of this Consent
- 23 Decree is more than 90 Days after EPA's receipt of the SNCR
- 24 Optimization Protocol specified above, the applicable deadline to
- 25 commence optimization of the SNCR units, specified in Paragraph IV.3 of
- 26 this Appendix A, below, shall be extended by the same number of Days
- 27 that EPA's action exceeds the 90 days from the date Defendant submits
- 28 the SNCR Optimization Protocol.
- 29
- 30 b. The SNCR Optimization Protocol shall describe procedures to be used
- 31 during the optimization period ("SNCR Optimization Period") for each
- 32 SNCR to optimize the different Facility processes to minimize emissions
- 33 and adjust the Kiln and SNCR operating parameters, and shall include the
- 34 following:
- 35
- 36 i. Measures to optimize the Facility's processes to reduce NO<sub>x</sub>
- 37 emissions in conjunction with SNCR (the "SNCR Optimization
- 38 Measures"), which shall include at a minimum, fuel fineness,
- 39 primary, secondary air rates injected into the Kiln, and adjustments
- 40 to the raw mix such as fineness and composition;



- ii. The method Defendant will use to calculate Ammonia Slip according to Paragraph 8.d of this Consent Decree;
- iii. Measures to optimize the SNCR using the Ammonia Slip measurement at each Kiln. These measures shall include attempting to maintain an Ammonia Slip concentration of 2 to 6 ppm on a daily average basis or alternative equivalent measures of using Ammonia Slip to control the SNCR operation rate; and
- iv. Measures to be taken if optimization of the SNCR causes operational problems or excess emissions of a pollutant other than NO<sub>x</sub>.

3. SNCR Installation and Commencement of Operation:

- a. For Kilns 1 and 2, Defendant shall complete installation of SNCR no later than 365 days following submission of the Baseline Collection Report for each Kiln and commence the approved SNCR Optimization Protocol as of the date of such installation.
- b. Defendant shall commence Continuous Operation of each SNCR in accordance with the approved Optimization Protocol by adding reagent to the SNCR system.

4. SNCR Optimization Period:

- a. Defendant shall make its best efforts to establish the optimized steady-state operation of each SNCR as soon as practicable.
- b. For Kilns 1 and 2, optimization of the SNCR's and the Facility's processes shall be completed within 270 days following the deadline for SNCR installation.
- c. For each Kiln, Defendant shall collect the data identified in Paragraph III.2.a of Appendix A during the SNCR Optimization Period. When submitted, Defendant shall provide the data to EPA in an electronic format consistent with and able to be manipulated by Microsoft Excel and explain the reasons for any data not collected.
- d. During each SNCR Optimization Period, Defendant shall operate each Kiln in a manner necessary to produce a quality cement clinker product

1 and shall use good air pollution control practices for minimizing emissions  
2 at all times.

- 3 e. For each Kiln, Defendant shall continue to collect the data specified in  
4 Paragraph III.2.a of Appendix A after the SNCR Optimization Period.

5  
6 5. SNCR Optimization Report:

- 7 a. Within 60 Days following the end of the SNCR Optimization Period for  
8 each Kiln, Defendant shall submit to EPA for approval pursuant to Section  
9 XI (Review and Approval of Submittals) of the Consent Decree an  
10 optimization report ("SNCR Optimization Report") for that Kiln. The  
11 Optimization Report shall:

- 12 i. Demonstrate conformance with the SNCR Optimization Protocol  
13 for the Kiln and its associated SNCR system;  
14 ii. Include all data collected during the SNCR Optimization Periods;  
15 iii. Propose, for approval, consistent with the SNCR Optimization  
16 Protocol, the optimized operating parameters for the Kiln and the  
17 SNCR system to be maintained during the SNCR Demonstration  
18 Period; and  
19 iv. Propose steps to be taken to maintain an Ammonia Slip of between  
20 2 and 6 ppm on a daily average basis or an alternative method of  
21 using Ammonia Slip data to control the SNCR operation during the  
22 Demonstration Period.

- 23 b. In identifying the optimized state of each SNCR, including the injection  
24 rates of reagents, and the operating parameters for the Facility processes,  
25 Defendant may take into account energy, environmental, and economic  
26 impacts and other costs.

- 27 c. The SNCR Optimization Report may also include a discussion of any  
28 problems encountered during the SNCR Optimization Period, and how  
that problem may impact the potential emission reductions (including the  
quantity of reagent slip at varying injection rates and/or the possible  
observance of a detached plume above the Stack).

1 d. In the event Defendant determines, prior to the expiration of the SNCR  
2 Optimization Period, that its ability to optimize the Kiln and/or its SNCR  
3 system will be affected by potential impairments to product quality, Kiln  
4 system reliability or increased emissions of other pollutants, then  
5 Defendant shall promptly advise EPA of this determination, and include  
6 these considerations as part of its recommendation in its SNCR  
7 Optimization Report.

6 6. SNCR Demonstration Period:

- 7 a. The SNCR Demonstration Period for each Kiln shall commence within 7  
8 days after Defendant's receipt of the final approval by EPA of the SNCR  
9 Optimization Report for the relevant Kiln.
- 10 b. The SNCR Demonstration Period shall last 270 Operating Days. During  
11 the SNCR Demonstration Period, the Kiln shall be operated consistent  
12 with the optimized operations of the Facility's processes and the SNCR  
13 system as approved by EPA as part of the SNCR Optimization Report.
- 14 c. Subject to Section XV (Dispute Resolution) and through written notice to  
15 Defendant, EPA may itself extend or reopen the SNCR Demonstration  
16 Period based upon a determination that additional data is needed to be able  
17 to adequately establish an emission limitation.
- 18 d. If evidence arises during the SNCR Demonstration Period that product  
19 quality, or Kiln system reliability is impaired, then Defendant may, upon  
20 notice to, and approval by, EPA, temporarily modify Kiln operation and  
21 the SNCR system to mitigate the impairment and request that EPA  
22 suspend or extend the SNCR Demonstration Period for further technical  
23 evaluation of the effects of process optimization on the Kiln or SNCR  
24 system or, alternatively, permanently modify the manner of operation of  
25 the Kiln or SNCR system to mitigate the effects.
- 26 e. During the SNCR Demonstration Period for each Kiln, Defendant shall  
27 collect the same data as required in Paragraph III.2.a of Appendix A.

24 7. SNCR Demonstration Report:

- 25 a. Within 60 Days following completion of the SNCR Demonstration Period  
26 for each Kiln and its associated SNCR, Defendant shall submit a  
27 demonstration report to EPA ("SNCR Demonstration Report") for that  
28 Kiln. The SNCR Demonstration Report shall include all of the data

collected during the SNCR Demonstration Period and the proposed 30-Day Rolling Average Emission Limit for NO<sub>x</sub> for each Kiln.

b. For the purposes of the SNCR Demonstration Report:

- i. The 30-Day Rolling Average Emission Limit for NO<sub>x</sub> for each Kiln shall be based upon an analysis of CEMS data and clinker production data collected during the SNCR Demonstration Period while the Facility's processes and SNCR system parameters were optimized consistent with the SNCR Optimization Report, Appendix A.IV.5 of the Consent Decree.
- ii. Total pounds of NO<sub>x</sub> emitted during an individual Operating Day will be calculated from collected CEMS data for that Operating Day.
- iii. Hours or days when there is no Kiln Operation may be excluded from the calculation in Paragraph IV.7.c of Appendix A below. However, Defendant shall provide an explanation in the SNCR Demonstration Report for any data excluded and include the excluded data in the Demonstration Report.
- iv. All NO<sub>x</sub> data when hourly Ammonia Slip is less than 2 ppm or greater than 6 ppm may be used for daily NO<sub>x</sub> average calculation. For any days where the daily Ammonia Slip averages less than 2 ppm or greater than 6 ppm, Defendant shall provide justification for use of that data for use in determination of the 30-Day Rolling Average Emission Limit for NO<sub>x</sub> for each Kiln. EPA reserves the right to eliminate any data outside the parameters of the Optimization Report from the final 30-Day Rolling Average Emission Limit.

c. The final 30-Day Rolling Average Emission Limit for NO<sub>x</sub> for each Kiln shall be calculated in accordance with the following formula:

$X = \mu + 1.65\sigma$  where:

$X$  = 30-Day Rolling Average Emission Limit (lbs/Ton of clinker)

$\mu$  = arithmetic mean of all of the 30-Day rolling averages

$\sigma$  = standard deviation of all of the 30-Day rolling averages, as calculated in the following manner:

$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \bar{x})^2}$$

- d. EPA shall either approve the proposed 30-Day Rolling Average Emission Limits for NO<sub>x</sub> or establish an alternative 30-Day Rolling Average Emission Limits. If EPA establishes an alternative 30-Day Rolling Average Emission Limit for NO<sub>x</sub> for one or both of the Kilns, Defendant will begin to meet the alternative 30-Day Rolling Average Emission Limit for NO<sub>x</sub> within 30 days of receiving notice of the limits from EPA, unless Defendant invokes dispute resolution according to the Section XV (Dispute Resolution) provisions of the Consent Decree in which case the final NO<sub>x</sub> limit shall be the 30-Day Rolling Average agreed to by the Parties at the conclusion of Informal Dispute Resolution. If Informal Dispute Resolution does not resolve the dispute, Defendant shall comply with its Proposed final NO<sub>x</sub> emissions limit until a final NO<sub>x</sub> Emissions Limit is determined by the Court.
- e. Subsequent to EPA's approval of the final 30-Day Rolling Average Emission Limits for NO<sub>x</sub>, Defendant shall have the right to use any type or quantity of reagent, provided that Defendant continues to comply with the 30-Day Rolling Average Emission Limit for NO<sub>x</sub>.
- f. Supporting data required to be submitted under this Appendix A may contain information relative to Kiln operation and production that Defendant may consider to be proprietary. In such a situation, Defendant may submit the information to EPA as CBI, subject to the provisions of 40 C.F.R. Part 2.
- g. If the final 30-Day Rolling Average Emission Limit for NO<sub>x</sub> is established at 40% or more below Baseline NO<sub>x</sub> Emissions, no further action shall be required under this Appendix A.

## V. LNB Installation and Optimization Requirements

1. LNB Vendor Selection Report

- 1 a. Within 120 days after EPA's demand that Defendant install an LNB  
2 pursuant to Paragraph 14 of this Consent Decree, Defendant shall submit  
3 an LNB Design Report that explains the reasons Defendant has selected  
4 the recommended vendor(s) and includes information from the  
5 recommended vendor(s) on expected LNB design and associated NO<sub>x</sub>  
6 reductions for both Kilns. Any vendor(s) and design chosen must design  
7 the LNB with the aim of achieving the result of at least 15% NO<sub>x</sub>  
8 reduction from the Kiln(s) post SNCR installation and operation. The  
9 LNB Design Report will set forth the design specifications of the selected  
10 LNB system and the operating parameters and equipment adjustments to  
11 be made to the LNB system and, if necessary, the SNCR systems during  
12 the LNB Optimization Period necessary to attain emission reductions.

13  
14 2. LNB Installation and Commencement of Operations

- 15 a. Within the time frame established pursuant to Paragraph 15, Defendant  
16 shall complete installation of LNB on Kilns 1 and/or 2, as specified  
17 ("LNB Installation").  
18 b. Defendant shall install the LNB system consistent with the selected vendor  
19 design and operate each LNB in accordance with the LNB Design Report.

20 3. LNB Optimization Protocol

- 21 a. Consistent with the LNB Design Report, optimization of the LNBs on  
22 Kiln 1 and Kiln 2 shall be completed no later than 4 months from LNB  
23 Installation (the "LNB Optimization Period"). Defendant shall make its  
24 best efforts to establish the optimized steady-state operation of the LNB as  
25 soon as practicable.  
26 b. During the LNB Optimization Period, Defendant shall operate each Kiln  
27 in a manner necessary to produce a quality cement clinker product and  
28 shall use good air pollution control practices for minimizing emissions at  
all times. The SNCR shall Continuously Operate during the LNB  
Optimization Period.

4. LNB Data Collection and Submission

- a. The data collected during the LNB Optimization Period shall include the  
data specified in Section III.2.a of this Appendix A.

- 1           b.     The data collected during the LNB Optimization Period shall be submitted  
2                 to EPA within one month after the end of the Period as part of an LNB  
3                 Optimization Report according to the detail and format specified by this  
4                 Section. The LNB Optimization Report shall also describe how  
5                 Defendant met the installation and operating parameters and specifications  
6                 set forth in the LNB Design Report.
- 7           c.     When submitted, Defendant shall provide the data to EPA in an electronic  
8                 format, consistent with and able to be manipulated by Microsoft Excel,  
9                 and shall explain the reasons for any data not collected for each of the  
10                parameters.

11           5.     LNB Demonstration Period

- 12           a.     To establish a revised final NO<sub>x</sub> 30-Day Rolling Average Limit based  
13                 upon operation of the LNB and the SNCR, Defendant shall duplicate and  
14                 comply with all applicable requirements of Section IV.6 of this Appendix  
15                 A, except the LNB Demonstration Period shall last 180 Operating Days.

16           6.     LNB Demonstration Report

- 17           a.     Defendant shall submit a demonstration report to EPA for approval for  
18                 that Kiln within 60 Days following completion of the LNB Demonstration  
19                 Period and comply with all applicable requirements of Section IV.7 of this  
20                 Appendix A including proposing for approval under Section XI (Review  
21                 and Approval of Submittals), a revised final 30-Day Rolling Average  
22                 Emission Limit. Under no circumstance may this proposed revised final  
23                 limit be less stringent than the limit proposed and/or approved pursuant to  
24                 the SNCR Demonstration process. The SNCR shall Continuously Operate  
25                 during the LNB Demonstration Period.

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**Appendix B to Consent Decree:  
Environmental Mitigation Projects**

In compliance with and in addition to the requirements in Section VII (Other Injunctive Relief) of this Consent Decree, Defendant shall comply with the requirements of this Appendix B to ensure that the benefits for the federally directed Environmental Mitigation Projects below are achieved.

**Clean Diesel Engine Replacement Projects**

1. Defendant shall replace an existing heavy-duty diesel truck with a new heavy-duty diesel truck subject to the emission standards set forth at 40 C.F.R. § 86.007-11, at a cost of not less than \$120,000. Defendant shall also replace an existing rail car mover with a Tier 0 or Tier 1 engine with a new rail car mover with a Tier 4 engine subject to the emission standards set forth at 40 C.F.R. Part 1039, at a cost of not less than \$300,000.
2. The replaced engines will be located at Defendant's Fernley facility and related quarries, and between those locations. Defendant shall complete the requirements within two (2) years after the Effective Date.
3. Defendant shall provide a mechanism by which each replaced engine in Paragraph 1 of this Appendix B above is properly disposed of, which must include destruction of the engine block.
4. Nothing in this Consent Decree shall be interpreted to prohibit Defendant from completing any of the Projects ahead of schedule.
5. In accordance with the requirements of Section XII (Reporting Requirements) of the Consent Decree, within sixty (60) Days following the completion of each Project, Defendant shall submit to U.S. EPA for approval a report that documents:
  - a. The date the replacement was completed;
  - b. The results of implementation of the replacement, including the estimated emission reductions or other environmental benefits achieved; and
  - c. The cost incurred by Defendant in implementing the replacement.